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TEXTILE ORGANON

Volume 60, No. 2 ☐ February 1989

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Highlights

- 1988 Import/Export Review...begins on page 24.
- Quarterly Fiber and Fiber Manufactures Import/Export Data...see pages 23 and 30.
- Quarterly Manufactured Fiber Data ...begins on page 34.

SHIPMENTS:

In January, total manufactured fiber shipments reached 748 million pounds, 7% below the 802 million pounds shipped in December and 6% above the 709 million pounds shipped in January 1988.

January shipments of noncellulosic filament yarn fell 6% to 343 million pounds and staple+tow fell 9% to 354 million pounds.

Contributing to the decrease in shipments over the previous month were polyester textile yarn down 21 million pounds or 23%, polyester staple down 32 million pounds or 14% and acrylic staple down 7 million pounds or15%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1989 JAN	1988 DEC	% CHG 1/89-12/88	1988 JAN	% CHG 1/89-1/88	YEAR TO DATE 1989	YEAR TO DATE 1988	% CHG YTD 1989-1988
CELLULOSIC								
YARN	17.3	20.0	*-13.5*	15.9	*+8.8*	17.3	15.9	*+8.8*
RAYON STAPLE	34.5	28.0	*+23.2*	32.6	*+5.8*	34.5	32.6	*+5.8*
TOTAL CELLULOSIC	**51.8**	**48.0**	*+7.9*	**48.5**	*+6.8*	**51.8**	**48.5**	*+6.8*
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	31.3	31.4	*-0.3*	27.5	*+13.8*	31.3	27.5	*+13.8*
- CARPET	74.7	76.2	*-2.0*	72.6	*+2.9*	74.7	72.6	*+2.9*
- TEXTILE[a]	33.7	36.8	*-8.4*	30.0	*+12.3*	33.7	30.0	*+12.3*
POLYESTER - INDUSTRIAL	28.6	31.7	*-9.8*	26.5	*+7.9*	28.6	26.5	*+7.9*
- TEXTILE[a]	72.4	93.5	*-22.6*	62.9	*+15.1*	72.4	62.9	*+15.1*
OLEFIN	101.9	95.4	*+6.8*	97.2	*+4.8*	101.9	97.2	*+4.8*
TOTAL YARN	**342.6**	**365.0**	*-6.1*	**316.7**	*+8.2*	**342.6**	**316.7**	*+8.2*
STAPLE+TOW+FIBERFILL								
NYLON	82.3	78.0	*+5.5*	78.4	*+5.0*	82.3	78.4	*+5.0*
ACRYLIC+MODACRYLIC	41.7	49.1	*-15.1*	48.5	*-14.0*	41.7	48.5	*-14.0*
POLYESTER	200.5	232.5	*-13.8*	187.7	*+6.8*	200.5	187.7	*+6.8*
OLEFIN	29.3	29.6	*-1.0*	29.1	*+0.7*	29.3	29.1	*+0.7*
TOTAL STAPLE	**353.8**	**389.2**	*-9.1*	**343.7**	*+2.9*	**353.8**	**343.7**	*+2.9*
TOTAL NONCELLULOSIC	**696.4**	**754.2**	*-7.7*	**660.4**	*+5.5*	**696.4**	**660.4**	*+5.5*
TOTAL MANUFACTURED FIBER	**748.2**	**802.2**	*-6.7*	**708.9**	*+5.5*	**748.2**	**708.9**	*+5.5*
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS[b]	701.8	741.3	*-5.3*	659.8	*+6.4*	701.8	659.8	*+6.4*
EXPORTS[c]	46.4	60.9	*-23.8*	49.1	*-5.5*	46.4	49.1	*-5.5*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

Textile Organon

A Monthly Review

February 1989

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TABLE 2:
QUARTERLY U.S. IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

PRODUCTS	2ND QUARTER 1987			3RD QUARTER 1987			4TH QUARTER 1987			1ST QUARTER 1988			2ND QUARTER 1988			3RD QUARTER 1988			4TH QUARTER 1988		
	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]
RAYON & ACETATE																					
YARN+MONOFILAMENTS	2.5	1.5	1.0 I	2.8	1.4	1.4 I	4.5	1.7	2.8 I	4.0	2.4	1.6 I	4.0	3.9	0.1 I	4.4	3.7	0.7 I	5.2	2.6	2.6 I
STAPLE+TOW	3.9	8.5	4.6 E	3.0	13.2	10.2 E	2.8	3.8	1.0 E	3.3	5.1	1.8 E	4.1	7.0	2.9 E	6.0	6.8	0.8 E	6.9	5.6	1.3 I
WASTE	+	0.2	0.2 E	0	0.2	0.2 E	0.1	0.2	0.1 E	-	0.6	0.6 E	0	0.4	0.4 E	0	0.7	0.7 E	+	0.2	0.2 E
SUBTOTAL	6.4	10.2	3.8 E	5.8	14.8	9.0 E	7.4	5.7	1.7 I	7.3	8.1	0.8 E	8.1	11.3	3.2 E	10.4	11.2	0.8 E	12.1	8.4	3.7 I
NONCELLULOSIC FIBERS																					
YARN+MONOFILAMENTS	29.0	57.3	28.3 E	30.8	60.1	29.3 E	30.0	58.6	28.6 E	29.8	74.0	44.2 E	28.1	70.3	44.2 E	30.2	79.1	48.9 E	28.1	73.6	45.5 E
STAPLE+TOW	46.1	93.9	47.8 E	52.4	85.2	32.8 E	41.6	92.2	50.6 E	43.3	111.9	68.6 E	53.7	88.3	34.6 E	51.0	100.6	49.6 E	48.1	98.3	50.2 E
WASTE	11.9	28.9	17.0 E	10.6	23.8	13.2 E	11.5	30.1	18.6 E	11.8	31.0	19.2 E	10.6	32.1	21.5 E	8.6	35.1	26.5 E	9.5	46.1	36.6 E
SUBTOTAL	87.0	180.1	93.1 E	93.8	169.1	75.3 E	83.1	180.9	97.8 E	84.9	216.9	132.0 E	92.4	190.7	98.3 E	89.8	214.8	125.0 E	85.7	218.0	132.3 E
TOTAL FIBER ABOVE[b]	93.4	190.3	96.9 E	99.5	183.9	84.3 E	90.5	186.6	96.1 E	92.2	225.0	132.8 E	100.5	202.0	101.5 E	100.2	226.0	125.8 E	97.8	226.4	128.6 E
MANUFACTURED FIBER MANUFACTURES[c]																					
SLIVER, TOPS & ROVING	2.4	1.1	1.3 I	1.6	1.5	0.1 I	0.8	1.5	0.7 E	0.9	3.1	2.2 E	1.0	3.2	2.2 E	0.8	2.9	2.1 E	1.3	2.8	1.5 E
SPUN YARNS	18.3	11.2	7.1 I	16.4	9.6	6.8 I	14.3	13.8	0.5 I	10.9	11.3	0.4 E	11.1	11.1	0.0 E	11.0	12.4	1.4 E	10.5	13.5	3.0 E
THREAD & CRAFT YARNS	2.3	2.0	0.3 I	2.3	1.2	1.1 I	2.0	1.3	0.7 I	2.1	1.4	0.7 I	2.1	1.5	0.6 I	1.9	1.6	0.3 I	1.8	1.6	0.2 I
TIRE CORD & FABRIC	1.4	14.8	13.4 E	1.5	13.0	11.5 E	1.8	12.4	10.6 E	3.1	13.2	10.1 E	2.8	12.4	9.6 E	2.6	10.3	7.7 E	2.9	10.4	7.5 E
WOVEN FABRIC	50.2	42.7	7.5 I	47.3	36.6	10.7 I	42.4	39.4	3.0 I	42.0	41.9	0.1 I	50.4	41.3	9.1 I	45.1	41.3	3.8 I	41.8	44.7	2.9 E
KNIT FABRIC	3.9	3.2	0.7 I	2.6	2.8	0.2 E	3.3	3.1	0.2 I	2.7	3.3	0.6 E	3.5	3.7	0.2 E	2.2	3.7	1.5 E	3.1	3.8	0.7 E
NARROW FABRIC	4.1	11.5	7.4 E	4.0	11.3	7.3 E	3.2	12.0	8.8 E	3.1	13.7	10.6 E	4.0	17.1	13.1 E	4.2	15.4	11.2 E	3.6	16.0	12.4 E
APPAREL - KNIT	139.1	21.1	256.0 I	162.5	20.4	285.5 I	88.3	21.3	185.1 I	79.0	21.5	201.5 I	114.8	22.5	227.3 I	149.3	21.9	277.1 I	99.9	22.6	196.6 I
- NOT KNIT	138.0			143.4			118.1			144.0			135.0			149.7			119.3		
HOME FURNISHINGS	128.6	27.9	77.1 I	128.8	24.3	81.9 I	108.1	26.5	57.9 I	114.7	30.3	60.5 I	118.6	38.9	53.2 I	123.5	36.0	63.5 I	115.4	33.0	57.3 I
OTHER		23.6			22.6			23.7			23.9			26.5			24.0			25.1	
TOTAL MANUFACTURES	488.3	159.1	329.2 I	510.4	143.3	367.1 I	382.3	155.0	227.3 I	402.5	163.6	238.9 I	443.3	178.2	265.1 I	490.3	169.5	320.8 I	399.6	173.5	226.1 I
TOTAL MANUFACTURED FIBER & MANUFACTURES	581.7	349.4	232.3 I	610.0	327.2	282.8 I	472.8	341.6	131.2 I	494.7	388.6	106.1 I	543.8	380.2	163.6 I	590.5	395.5	195.0 I	497.4	399.9	97.5 I
COTTON MANUFACTURES[d]	563.9	74.2	489.7 I	606.5	74.5	532.0 I	565.1	76.8	488.3 I	573.1	77.2	495.9 I	502.6	81.4	421.2 I	529.7	81.8	447.9 I	513.4	89.8	423.6 I
WOOL MANUFACTURES[e]	76.6	5.8	70.8 I	92.5	6.1	86.4 I	55.5	7.1	48.4 I	476.0	6.7	469.3 I	62.0	7.2	54.8 I	81.3	8.6	72.7 I	53.0	8.1	44.9 I

SOURCE: The maufactured fiber import and export data are from the U.S Census Bureau Reports IM146 and EM546. The manufactured, cotton and wool manufactures data are from U.S. Department of Agriculture *"Cotton and Wool Outlook Situation."* The total manufactured fiber and manufactures import, export and balance data of this table cover the cellulosic and noncellulosic ffibers only. Glass fiber is excluded.

a. E Export Balance; I Import Balance

b. The fibers included are shown as "Total Manufactured Above" on pages 26 and 27 of this issue

c. Manufactured fiber equivalent.

d. Raw cotton equivalent. Data are similar to those on page 180 of the August 1988 ***Textile Organon***.

e. Raw wool content. The data differ from those on page 180 of the August 1988 ***Textile Organon*** to the extent that noils and waste are included here.

TABLE 3:
SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION

COUNTRY	A. CELLULOSIC YARN MONOFIL & STRIPS				B. NONCELLULOSIC TEXTILE YARN				C. NONCELL. INDUSTRIAL YARN, MONOFIL & STRIPS				D. CELLULOSIC STAPLE+TOW				E. NONCELLULOSIC STAPLE+TOW			
	THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS	
	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
AUSTRIA	0	0	0	0	0	1	0	3	5	111	19	308	1	0	2	0	20	105	12	105
BELGIUM/LUXEMBOURG	678	1638	1131	3301	8684	12286	32586	38652	28638	29558	41951	52170	1169	2028	833	1518	12290	9656	42700	36417
DENMARK	0	0	0	0	913	911	1344	1106	43	176	44	215	10	0	20	0	664	1920	706	1951
FINLAND	0	0	0	0	223	156	425	493	520	1283	529	1395	1	2	2	2	233	405	147	494
FRANCE	21	47	55	297	2328	2912	11405	11099	723	1178	1633	2596	169	149	285	197	1841	3100	2041	3243
GERMANY, FED. REP. OF	157	174	225	350	1328	1782	6647	8383	1890	2796	3739	5685	133	121	288	423	4211	5531	5526	9677
GREECE	13	0	24	0	27	110	47	208	13	54	76	318	20	23	27	35	95	51	131	46
ICELAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	221	229	223	252
IRELAND	0	0	0	0	100	1635	359	2286	772	739	1234	1065	0	235	0	594	875	1921	1016	2097
ITALY	4	210	4	360	935	599	2154	1444	2860	1489	3306	2577	42	27	43	36	9881	9617	6293	7335
NETHERLANDS	0	3	0	72	1198	1012	1612	1503	1408	1040	2247	2189	22	6	8	6	4219	8645	4148	6942
NORWAY	0	0	0	0	71	51	62	76	428	39	507	56	41	42	64	48	241	476	265	569
PORTUGAL	20	0	44	0	160	636	218	578	70	2	87	8	0	0	0	0	0	32	0	15
SPAIN	25	1	42	5	2088	6587	2831	6272	241	397	517	654	11	10	10	13	5040	5201	3089	3977
SWEDEN	0	30	0	154	244	194	321	263	1823	1629	1967	2176	26	11	38	13	1540	2654	1714	2776
SWITZERLAND	0	0	0	0	55	16	229	224	182	54	410	257	36	13	26	22	5150	2658	2929	1806
TURKEY	0	0	0	0	797	5730	1023	8027	28777	31732	30539	43200	0	0	0	0	7609	8266	3836	4926
UNITED KINGDOM	39	71	152	127	4897	8575	8587	15984	6370	7935	9118	12668	269	268	379	273	4098	6585	7141	12249
OTHER	0	0	0	0	0	5	0	22	2	7	7	18	0	0	0	0	0	0	0	0
TOTAL WESTERN EUROPE	953	2174	1677	4666	24046	43198	69850	98623	74765	80219	97930	127555	1950	2935	2025	3180	58228	67052	81917	94877
CZECHOSLOVAKIA	0	0	0	0	0	0	0	0	546	1592	594	1806	0	0	0	0	450	675	318	576
GERMANY, DEM. REP.	0	0	0	0	0	1	0	16	0	0	0	0	0	0	0	0	0	5	0	11
HUNGARY	63	516	88	831	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
POLAND	0	0	0	0	387	459	598	708	1400	14	1412	90	662	0	565	0	7566	14639	3773	9704
U.S.S.R.	0	0	0	0	0	0	0	0	0	96	0	209	0	0	0	0	0	0	0	0
YUGOSLAVIA	0	0	0	0	0	0	0	0	549	0	527	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	8	0	123	0	0	0	0	0	0	0	0
TOTAL EASTERN EUROPE	63	516	88	831	387	460	598	726	2495	1710	2533	2228	662	0	565	0	8016	15319	4091	10291
ARGENTINA	32	0	7	0	248	83	351	191	249	76	569	234	93	0	64	0	455	408	763	604
BOLIVIA	57	0	76	0	126	69	336	120	9	15	21	45	0	0	0	0	670	34	601	117
BRAZIL	175	45	313	81	1531	1273	2682	3143	1027	1797	2547	3679	255	3	208	3	637	1038	2178	3486
CANADA	2745	1925	3745	2271	28718	36708	48979	60938	10325	12470	23142	27121	950	663	648	579	88387	75933	64623	56955
CHILE	0	11	0	27	129	86	257	307	143	132	404	385	1660	131	1233	129	13957	15398	8413	10665
COLOMBIA	25	0	52	0	406	141	770	410	1440	2667	7253	9623	3508	1773	2361	1201	19496	4452	11545	3596
COSTA RICA	3	0	7	0	3717	1052	2867	1314	36	197	89	261	37	7	26	7	2967	4410	1878	2929
DOMINICAN REPUBLIC	156	40	188	49	1936	1412	1693	1833	49	95	103	172	0	16	0	15	790	284	530	303
ECUADOR	172	0	387	0	571	717	512	638	139	33	302	192	686	115	480	67	2828	8494	5317	5165
EL SALVADOR	0	0	0	0	758	120	743	139	1216	331	1753	590	43	1138	72	785	3689	7200	2259	6603
GUATEMALA	21	0	61	0	1555	1370	1493	1185	38	5	149	32	0	119	0	110	6769	7509	4154	5367
HAITI	1	0	9	0	272	232	334	319	729	5	1037	50	1	3	2	3	6	1	22	3
HONDURAS	0	2	0	5	556	279	760	438	20	11	58	37	3	0	9	0	2167	1792	1207	1137
JAMAICA	0	0	0	0	441	516	559	716	14	78	32	82	0	0	0	0	43	49	86	77
LEEWARD & WINDWARD ISL	0	0	0	0	0	2	2	7	0	0	0	0	0	0	0	0	5	8	5	9
MEXICO	50	227	72	324	1737	3106	3347	5949	2223	4332	6084	9249	9142	13119	5984	9760	22341	19526	19021	24262
NICARAGUA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PANAMA	0	14	0	16	155	143	251	167	134	59	612	67	0	0	0	0	60	16	379	92
PARAGUAY	0	0	0	0	0	0	0	0	1	25	10	126	0	0	0	0	0	0	0	0
PERU	5	0	11	0	196	80	326	162	536	156	880	280	429	214	314	125	451	7	246	9
TRINIDAD	0	0	0	0	2	57	10	149	52	4	79	26	0	0	0	0	8	6	20	17
URUGUAY	169	0	266	0	94	54	103	36	3	1	18	5	34	0	23	0	499	522	352	404
VENEZUELA	23	70	29	90	1201	1808	2441	4400	153	826	1129	2697	7808	2433	6532	2327	4486	2707	4059	3078
OTHER	0	19	0	20	90	183	71	1046	5	6	28	22	4	2	12	6	19	67	23	146
TOTAL OTHER AMERICAS	3644	2353	5223	2883	44439	49491	68887	83607	18541	23321	46299	54975	24653	19736	17968	15117	176730	149861	127681	125024

TABLE 3:
SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION *(CONTINUED)*

COUNTRY	A. CELLULOSIC YARN MONOFIL & STRIPS				B. NONCELLULOSIC TEXTILE YARN				C. NONCELL. INDUSTRIAL YARN, MONOFIL & STRIPS				D. CELLULOSIC STAPLE+TOW				E. NONCELLULOSIC STAPLE+TOW			
	THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS	
	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
BANGLADESH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	0
HONG KONG	5	5	126	80	600	373	1195	603	361	501	1301	2402	37	483	78	864	9312	11170	5393	7750
INDIA	140	85	96	54	231	182	428	460	2808	3171	3429	4724	52	278	35	175	2366	1320	1094	895
INDONESIA	0	0	0	0	0	79	0	172	3091	7809	3532	12216	0	45	0	56	586	519	315	452
KOREA, REP. OF	37	2000	52	3465	381	1462	943	3379	1062	2151	1730	3383	133	288	182	356	19042	13731	14850	11562
MALAYSIA	0	13	0	20	4	1	20	4	0	10	0	52	0	33	0	57	52	278	72	231
PAKISTAN	19	0	32	0	347	370	593	657	42	67	55	75	37	0	44	0	1434	587	665	390
PHILIPPINES	8	23	20	17	470	334	746	884	1593	777	13467	6331	7	7	12	8	5212	5290	5259	5421
SINGAPORE	0	0	0	0	339	2	168	12	216	959	265	1358	40	3	27	2	599	129	514	272
TAIWAN	262	999	353	1569	1782	596	1877	1168	3366	4679	4016	6212	969	354	802	364	13198	23674	9513	18972
THAILAND	56	35	76	62	48	105	69	211	299	344	654	750	0	0	0	0	11698	3141	4984	1901
TOTAL OTHER ASIA	527	3160	755	5267	4202	3504	6039	7550	12838	20468	28449	37503	1275	1491	1180	1882	63501	59839	42662	47846
CHINA, PRC	417	3460	585	4751	760	6586	974	11617	3	2132	19	3166	5375	44	3190	71	39144	84557	21261	56198
JAPAN	88	78	119	103	3732	10464	9815	20701	15050	17964	18766	24783	412	219	613	337	4216	7011	12365	15505
ALGERIA	0	0	0	0	0	82	0	115	0	5	0	10	0	13	0	12	1	0	4	0
AUSTRALIA	392	745	611	1303	8222	14406	17982	26103	1542	2009	3633	4125	145	79	280	103	6476	8839	10709	14590
CAMEROON	0	0	0	0	132	118	196	113	0	0	0	0	0	0	0	0	0	0	0	0
EGYPT	0	0	0	0	1611	315	2003	376	88	150	144	125	0	0	0	0	4708	931	3224	1219
IRAQ	0	0	0	0	0	831	0	985	0	0	0	0	0	0	0	0	0	0	0	0
ISRAEL	10	55	12	63	3055	1455	3744	1833	7913	6440	8822	8804	3	5	6	9	2158	885	1517	733
JORDAN	57	0	104	0	1	55	3	67	0	0	0	0	0	0	0	0	0	0	0	0
KENYA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEBANON	28	0	25	0	78	230	52	334	123	157	108	230	0	0	0	0	0	0	0	0
MOROCCO	0	0	0	0	1064	2030	778	1292	0	16	0	21	0	0	0	0	507	716	230	548
MOZAMBIQUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW ZEALAND	6	44	39	236	2273	1145	4100	2522	313	175	839	652	+	10	2	13	406	318	566	633
NIGERIA	0	0	0	0	111	251	91	271	10	76	13	133	0	0	0	0	567	308	386	168
QATAR	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0
SAUDI ARABIA	0	0	0	0	86	2113	174	3065	45	54	62	100	0	14	0	11	589	543	638	762
SOUTH AFRICA	190	72	306	127	415	1055	1140	2180	37	182	254	794	27	9	27	11	320	2918	286	2262
SUDAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	+	0
SYRIA	52	0	56	0	2170	3019	2804	3137	254	159	377	261	0	0	0	0	12	0	16	0
TANZANIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUNISIA	0	0	0	0	0	404	0	382	231	1	254	8	0	0	0	0	0	0	0	0
UNITED ARAB EMIRATES	0	0	0	0	0	14	0	10	0	0	0	2	0	0	0	0	0	0	0	0
ZAMBIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	12
ZIMBABWE	0	0	0	0	9	0	29	0	0	0	0	0	0	0	0	0	341	0	278	0
OTHER	0	0	0	0	106	612	194	1168	35	1	35	5	0	0	0	0	8	0	14	3
TOTAL M.E., A., & O.	735	916	1153	1729	19333	28135	33290	43953	10591	9426	14541	15272	175	130	315	159	16094	15461	17868	20930
GRAND TOTAL	6427	12657	9600	20230	96899	141838	189453	266777	134283	155240	208537	265482	34502	24555	25856	20746	365929	399100	307845	370671

SOURCE: U.S. Census Bureau Report EM546.

+ Less than 1 thousand pounds.
The commodity numbers are:
A. 309.0110, .2210, 310.0004 & .0026.
B. 310.0005, .0007, .0010, .0014, .0029, .0034, .0040 & .0044.
C. 309.0120, .0140, .0170, .2220, .2270, 310.0027 & .0032.
D. 309.4219 & .4222.
E. 309.3220, .3240, .3250, .3255, .4240, .4242, .4245, .4246 & .4247.

TABLE 4:
U.S. EXPORTS OF MANUFACTURED FIBERS

ITEM	COMMODITY NUMBER AS OF 1/1/87	THOUSAND POUNDS					THOUSAND DOLLARS				
		1984	1985	1986	1987	1988	1984	1985	1986	1987	1988
CELLULOSIC FIBERS											
FILAMENT YARN [a]											
TEXTURED	310.0004	129	101	102	614	248	337	298	242	1323	864
OTHER [b]	310.0026	8614	10412	7002	5428	12049	10051	13859	9207	7768	18651
MONOFILAMENTS	309.0110	12	79	228	285	258	66	178	651	413	629
STRIPS	309.2210	79	37	14	100	102	85	44	16	96	86
SUBTOTAL ABOVE		8834	10629	7436	6427	12657	10539	14379	10116	9600	20230
STAPLE+TOW-RAYON	309.4222	53882	35975	30887	32781	21760	37688	25546	21840	23369	17311
STAPLE-ACETATE	309.4219	2090	1849	1679	1721	2795	2337	2535	2182	2487	3435
SUBTOTAL ABOVE		55972	37824	32566	34502	24555	40025	28081	24022	25856	20746
WASTE, ADVANCED&NOT ADVANCED	309.7400	1632	1207	2222	1090	1921	1062	801	1822	939	706
NONCELLULOSIC FIBERS											
YARN - SINGLES											
NYLON - TEXTURED	310.005 & .0007	32268	26894	24403	35048	55702	50916	39982	42863	64400	103805
HIGH TENACITY [c]	310.0027	66732	69386	76870	78107	87142	62515	72294	81880	88840	121769
OTHER	310.0029	13155	9357	10333	9142	12116	28217	19373	23099	22983	30285
POLYESTER - TEXTURED	310.0010	79753	135997	68753	25057	39592	93889	140792	69534	28774	51042
HIGH TENACITY [c]	310.0032	9156	32137	23862	24961	27296	11064	29618	27087	29829	35602
OTHER [d]	310.0034	5968	8934	2347	1794	3033	8371	9270	2410	2567	4341
OTHER - TEXTURED	310.0014	7673	10495	21122	18119	21702	12040	14470	27888	29402	32068
OLEFIN	310.0040	340	555	1708	940	2874	485	766	1740	1087	3278
OTHER	310.0044	5261	7766	6084	6799	6819	26909	32505	35562	40240	41958
MONOFILAMENTS: ALL DENIERS											
NYLON	309.0120	2848	2364	5116	6663	6660	10435	9221	12901	16246	17400
POLYESTER	309.0140	3794	5759	6256	12294	21016	10141	14128	13387	21050	35837
OTHER	309.0170	11047	11955	4775	7453	8765	22912	17491	20821	33736	41823
STRIPS	309.2220 & .2270	4460	4204	3943	4805	4361	11398	13903	12945	18837	13051
SUBTOTAL ABOVE		242455	325803	255572	231182	297078	349292	413813	372117	397991	532259
STAPLE - NYLON	309.4240	14904	11100	15037	23447	21440	13854	17288	11610	24690	24598
POLYESTER	309.4242	178903	176697	111270	168127	143976	116843	112222	68239	90039	96891
ACRYLIC	309.4245	162285	150729	58397	67074	130235	114377	100146	40763	47571	93145
OLEFIN	309.4246	4368	6974	14623	21433	18794	4088	5754	12670	17842	16221
OTHER	309.4247	8555	10695	17410	35295	24112	30566	35401	57209	77415	75185
GROUPED FILAMENTS											
NYLON	309.3220	3048	1948	3701	5483	7134	8947	4635	9480	12681	15943
POLYESTER [d]	309.3240	23693	29155	21511	20573	20438	20749	23335	18135	18148	22156
ACRYLIC	309.3250 & .3255	33807	29214	21965	24497	32971	27202	24095	19498	19459	26532
SUBTOTAL ABOVE		429563	416512	263914	365929	399100	344457	319442	243282	307845	370671
WASTE, ADVANCED&NOT ADVANCED											
NYLON	309.7620	12465	5601	8855	11686	18840	6494	3048	4441	6047	8709
POLYESTER	309.7630	57371	46404	59265	56412	65478	22417	17722	24245	25423	33533
ACRYLIC	309.7640	4620	4804	6399	9569	9688	1365	1286	1372	3045	4856
OTHER	309.7660	15203	18836	49177	35860	50386	6385	6818	15315	12710	19407
SUBTOTAL ABOVE		89659	75645	123696	113527	144392	36661	28874	45373	47225	66505
TOTAL MAN-MADE ABOVE		828115	867620	685316	752657	879703	782036	805390	696732	789456	1011117
TEXTILE GLASS FIBER	309.2700 & .9700	58101	58328	61160	85378	106530	56385	57787	66134	95496	120313
GRAND TOTAL ABOVE		886216	925948	746476	838035	986233	838421	863177	762866	884952	1131430

SOURCE: U.S. Census Bureau Report EM546

a. Includes thrown, singles and plied yarn

b. Includes rayon tire cord and cord fabric

c. Includes noncellulosic tire cord and cord fabric

d. Includes zero twist yarns

TABLE 5:
U.S. IMPORTS OF MANUFACTURED FIBERS

ITEM	COMMODITY NUMBER AS OF 1/1/87	THOUSAND POUNDS					THOUSAND DOLLARS				
		1984	1985	1986	1987	1988	1984	1985	1986	1987	1988
CELLULOSIC FIBERS											
YARN - SINGLES											
TEXTURED	310.0106 & .0206	1571	190	518	305	1483	940	267	610	511	2278
OTHER	310.0130 & .0230[a]	8245	12951	15669	12267	15238	12924	19129	24795	19226	29005
MONOFILAMENTS	309.0310 & .0610	5	19	20	12	7	20	44	68	77	59
STRIPS, $1/LB. & UNDER	309.2000*	160	763	756	227	913	88	624	646	196	726
SUBTOTAL ABOVE		9981	13923	16963	12811	17641	13972	20064	26119	20010	32068
STAPLE	309.4320 & .4325	15388	11286	16453	12931	19037	10320	6844	12678	11128	15491
GROUPED FILAMENTS	309.3010 & .3310	1605	1022	975	893	1364	2619	1471	1305	1600	2105
SUBTOTAL ABOVE		16993	12308	17428	13824	20401	12939	8315	13983	12728	17596
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	530	479	121	85	7	323	263	79	25	14
NONCELLULOSIC FIBERS											
YARN - SINGLES											
TEXTURED - NYLON											
LESS THAN 450 DENIER	310.0107 & .0207	} 17966	32352	2601	2035	2679	} 26141	35244	5025	4170	5266
450 DENIER AND OVER	310.0108 & .0208			33994	26755	17721			37305	29921	22961
- POLYESTER	310.0110 & .0210	10806	16642	14590	15580	15060	10513	14653	13029	15403	14704
- OTHER	310.0114 & .0214	8939	14723	20477	24088	25188	10536	15732	20187	23874	27436
OTHER - NYLON	310.0149 & .0249	30192	18350	22521	22839	17773	39222	23747	30781	36679	30432
- POLYESTER	310.0150 & .0250	15698	16728	22465	19425	21596	21121	20624	28831	25656	33168
- OTHER	310.0170 & .0270[b]	2468	2520	5130	6777	8204	4139	4203	7837	8804	15235
MONOFILAMENTS	309.0200 & .0330[c]	2857	2059	2722	3804	4801	8817	5537	8197	12236	17498
STRIPS, OVER $1/LB	309.2100 & .2500*	1066	1187	1557	2627	3256	5844	5886	6487	8601	11676
SUBTOTAL ABOVE		89992	104561	126057	123930	116278	126333	125626	157679	165344	178376
STAPLE - NYLON	309.4331 & .4351	38281	38544	51959	38955	21944	36579	34292	26229	42829	27622
- POLYESTER	309.4336 & .4361	22890	26800	40785	70721	73198	13272	15841	13456	40278	50045
- ACRYLIC	309.4366	13541	17611	17442	15716	15389	12568	16396	7799	13096	18946
- OLEFIN	309.4371	2213	5732	1871	514	2075	1630	3879	289	400	1072
- OTHER	309.4341 & .4390	15412	25516	14238	12992	17778	11326	21283	4258	12810	23992
GROUPED FILAMENTS											
NYLON	309.3030 & .3200	23129	29514	38536	32248	40211	33524	40769	58505	50546	64708
POLYESTER	309.3040 & .3340	7104	4980	2354	3139	4355	6569	4715	2392	3767	6242
ACRYLIC	309.3050 & .3350	6929	7518	13065	13000	19418	15116	16548	31792	31152	48130
OTHER	309.3065 & .3365	1660	3231	2540	1700	1786	2371	4313	3339	2991	2706
SUBTOTAL ABOVE		131159	159446	182790	188985	196154	132955	158036	148059	197869	243463
WASTE, NOT ADVANCED											
- NYLON	309.6625	31205	27162	22377	26926	22512	13876	10793	7755	8412	8582
- POLYESTER	309.6630	8042	7149	6304	9170	10113	1325	1143	878	1385	1961
- ACRYLIC	309.6645	39	283	328	306	167	8	48	182	70	62
- OTHER	309.6660	4074	2072	8442	4666	2577	2027	607	2142	895	502
NOILS & GARNETTED FIBERS	309.7000*	458	155	164	162	109	254	101	123	83	57
OTHER WASTE, ADVANCED	309.7525 - .7555	6729	3852	2688	5727	5026	1912	890	702	1894	1353
SUBTOTAL ABOVE		50547	40673	40303	46957	40504	19402	13582	11782	12739	12517
TOTAL MAN-MADE ABOVE		299202	331390	383662	386592	390985	305924	325886	357701	408715	484034
OTHER MAN-MADE FIBER TOPS, YARN & THREAD											
YARN - PLIED											
TEXTURED - CELLULOSIC	310.1506	1	1	1	5	+	7	7	15	44	1
- NONCELLULOSIC	310.1015[d] & .1205[e]	12223	9270	10221	3999	2303	17370	9955	11926	6471	4906
OTHER - CELLULOSIC	310.1030 & .1535[f]	173	390	478	553	382	723	937	1932	2622	3183
- NONCELLULOSIC	310.1050 & .1070[g]	2763	4032	4857	3314	3703	4447	6795	10007	7441	10053
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	1724	1739	1879	1541	814	2224	2100	3105	3199	2335
- OTHER	310.4015 & .4027[i]	35583	34260	44691	37128	22206	58127	54897	75910	68943	44590
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	7517	8912	16759	28029	22911	16210	15640	28555	46150	42205
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	5445	9283	4593	8338	7632	18111	28952	13846	31339	29859
SLIVER, TOPS & ROVING	309.9000	4544	1941	3298	5537	3914	4792	2334	4467	7085	7530
TEXTILE GLASS FIBER	309.2800 & .2900[k]	23083	34690	24404	29465	26200	19203	27850	23082	29283	30562
GRAND TOTAL ABOVE	—	392258	435908	494843	504501	481050	447138	475353	530546	611292	659258

Source: U.S. Census Bureau Report IM146.

NES - Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

[a] Also includes 310.0610.

[b] Also includes 310.0530, .0550, .0630 & .0650.

[c] Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

[d] There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

[e] Also includes 310.1210.

[f] Also includes 310.2110.

[g] Also includes 310.1510, .1514, .1550, .1555, .1570, .2030, .2050, .2130 & .2150.

[h] Also includes 310.5005 & .5030.

[i] Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

[j] Also includes 310.9320 & .9500.

[k] Chiefly roving. Also includes 309.9800 & .9900.

TABLE 6:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN [a]
THOUSAND POUNDS

	A. NONCELLULOSIC YARN - SINGLES						B. NONCELLULOSIC STAPLE+TOW			
	NYLON		POLYESTER		OTHER		NYLON		POLYESTER	
COUNTRY	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
AUSTRIA	0	7	32	24	28	51	9	21	0	0
BELGIUM/LUX	3023	518	173	0	9299	10052	54	90	+	204
DENMARK	0	0	+	0	0	0	0	0	20	0
FINLAND	0	0	0	0	0	0	0	0	0	0
FRANCE	5598	6118	147	10	9	41	7434	10454	393	515
GERMANY FED REP OF	11213	3176	7557	6635	3228	3370	16999	18688	6557	2736
GREECE	0	0	0	0	2	1	0	0	0	0
IRELAND	25	0	+	0	239	931	0	0	2086	3062
ITALY	11988	9908	230	40	178	195	9923	572	4	182
NETHERLANDS	922	160	126	119	34	118	+	20	1	176
PORTUGAL	0	0	0	0	0	0	2	2	0	0
SPAIN	0	0	0	95	302	340	0	8	+	0
SWITZERLAND	76	5	141	33	261	3	666	749	6	68
UNITED KINGDOM	7305	7625	220	978	814	1126	8638	12990	192	99
OTHER	24	106[a]	126	0	67	101[c]	1	259[e]	38	0
TOTAL WESTERN EUROPE	40174	27623	8752	7934	14461	16329	43726	43853	9297	7042
POLAND	0	0	0	0	0	0	0	0	0	0
ROMANIA	0	0	166	912	0	0	3866	1200	504	1174
OTHER	0	0	0	0	0	0	0	0	0	0
TOTAL EASTERN EUROPE	0	0	166	912	0	0	3866	1200	504	1174
ARGENTINA	139	179	0	0	0	0	0	0	0	0
BRAZIL	0	1	0	1116	1	0	0	0	1275	0
CANADA	2454	3781	656	3062	14719	15206	16476	15968	11447	10203
COSTA RICA	0	0	6723	6428	0	0	0	0	91	0
MEXICO	5928	3610	13063	14458	852	829	5179	6	10828	5454
OTHER	0	0	1	89[b]	223	313[d]	0	0	+	0
TOTAL OTHER AMERICA	8521	7571	20443	25153	15795	16348	21655	15974	23641	15657
BANGLADESH	0	0	0	0	6	0	0	0	0	0
HONG KONG	0	0	0	0	0	3	109	61	9	0
INDONESIA	0	0	0	0	0	0	0	0	0	0
KOREA, REP OF	0	8	2	0	23	2	22	0	11438	20736
MALAYSIA	0	0	0	0	0	0	0	0	563	475
PHILIPPINES	0	0	27	0	0	0	0	0	0	0
SINGAPORE	0	0	0	0	0	0	0	0	0	0
TAIWAN	159	0	84	110	16	121	202	3	18291	9438
THAILAND	0	0	4	5	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	2	12022[f]
TOTAL OTHER ASIA	159	8	117	115	45	126	333	64	30303	42672
CHINA, PRC	0	0	390	0	0	0	17	0	0	0
JAPAN	126	87	5019	2391	549	588	1312	701	9999	10982
AUSTRALIA	0	0	0	53	0	0	185	275	33	23
EGYPT	0	0	0	0	0	0	0	0	0	3
ISRAEL	2616	2884	30	98	15	1	109	88	0	0
NEW ZEALAND	0	0	0	0	0	0	0	0	0	0
SOUTH AFRICA	0	0	88	0	0	0	0	0	0	0
OTHER	33	0	+	0	+	0	0	0	83	0
TOTAL M.E. A, & O.	2649	2884	118	151	15	1	294	363	116	26
GRAND TOTAL	51629	38173	35005	36656	30865	33392	71203	62155	73860	77553

SOURCE: U.S. Census Bureau Report IM146

+ Less than 1 thousand pounds

A. Nylon 310.0107, .0108, .0149, .0207, .0208 & .0249; Polyester 310.0110, .1050, .0210 & .0250; Other 310.0114, .0170, .0214, .0270, .0530, .0550, .0630 & .0650

B. Nylon 309.3030, .3200, .4331 & .4351; Polyester 309.3040, .3340, .4336 & .4361; Acrylic 309.3050, .3350, .4366; Other 309.3065, .3365, .4341, .4371 & .4390

C. Cellulosic 310.4005, .4030, .5005 & .5030; Noncellulosic 310.4015, .4027, .4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051

D. Cellulosic 309.6615 & .7510; Noncellulosic 309.6625, .6630, .6645, .6660, .7000, .7525, .7530, .7540 & .7555

E. 309.2800, .2900, .9800 & .9900

a. Gibraltar 106

b. Ecuador 89

				C. SPUN YARNS				D. WASTE				E. GLASS FIBER	
ACRYLIC		OTHER		CELL.		NONCELL.		CELL.		NONCELL.			
1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
0	0	2227	6507	934	142	68	157	0	0	0	0	0	0
142	57	3	615	0	0	1	1	0	0	772	420	611	172
0	0	137	56	0	0	1	0	0	2	0	0	0	0
0	0	38	73	0	0	82	80	0	0	0	0	0	0
122	42	112	214	3	1	369	353	1	0	1160	966	167	122
7057	10422	1308	2153	31	160	2144	1964	0	0	3183	2587	133	6
0	0	0	0	0	0	1811	605	0	0	0	0	0	0
0	0	0	0	0	0	+	0	0	0	14	0	0	0
1936	678	1024	256	22	0	9651	2226	0	1	0	0	242	118
15	0	0	32	0	0	0	0	0	0	2360	2597	420	0
0	0	0	0	0	0	362	0	0	0	0	0	0	0
425	2	1	569	24	0	900	257	0	0	144	242	0	0
254	135	304	769	0	0	40	67	0	0	93	315	0	0
5620	9465	554	0	0	5	839	379	0	0	3830	3133	7264	6218
0	0	0	0	0	0	608	1331[i]	0	0	0	0	437	12[m]
15571	20801	5708	11244	1014	308	16876	7420	1	3	11556	10260	9274	6648
0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	3217	1892	0	0	144	0	0	0
0	0	0	59[h]	0	0	1254	1115[j]	0	0	0	0	+	12[n]
104	0	0	59	0	0	4471	3007	0	0	144	0	+	12
0	0	0	0	0	0	0	0	0	0	717	892	0	0
0	0	423	140	5	0	292	58	0	0	0	0	0	0
0	6	1401	2626	0	6	894	1019	84	4	12299	12319	3907	4618
0	0	0	0	0	0	0	0	0	0	34	80	0	0
3843	1577	530	251	0	0	2127	2048	0	0	9189	7092	0	0
0	0	0	0	0	0	599	285[k]	0	0	0	0	0	0
3843	1583	2354	3017	5	6	3912	3410	84	4	22239	20383	3907	4618
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	108	0	0	0	0	0	0	0
0	0	0	0	0	0	575	649	0	0	0	0	0	0
177	0	214	247	0	0	360	268	0	0	3082	2368	0	0
43	0	0	0	0	0	1084	862	0	0	0	0	0	0
2	0	+	0	0	0	554	130	0	0	0	75	0	0
0	0	0	0	0	0	1009	929	0	0	0	0	0	1
0	81	4155	2528	0	0	81	249	0	0	86	0	40	0
0	0	0	0	0	0	739	719	0	0	0	0	0	34
0	0	0	0	2	0	117	0	0	0	0	0	0	0
222	81	4369	2775	2	0	4627	3806	0	0	3168	2443	40	35
0	0	11	5	0	0	2552	2789	0	0	2704	906	0	0
8976	12256	2699	4345	520	500	4106	1500	0	0	3545	3723	16244	14887
0	0	0	194	0	0	0	6	0	0	1595	1473	0	0
0	2	8	0	0	0	231	0	0	0	0	0	0	0
0	14	57	0	0	0	179	0	0	0	1972	1316	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	39	0	0	0	34	0	0	0
0	70[g]	0	0	0	0	135	268[l]	0	0	0	0	0	0
0	86	65	194	0	0	584	274	0	0	3601	2789	0	0
28716	34807	15206	21639	1541	814	37128	22206	85	7	46957	40504	29465	26200

c. Turkey 101

d. Chile 313.

e. Gibraltar 259.

f. India 12022

g. Morocco 70.

h. Germany, Dem. Rep. 56, Hungary 3.

i. Turkey 1320, Sweden 11.

j. Hungary 1115.

k. El Salvador 56, Honduras 229.

l. Mauritius 268.

m. Sweden 12.

n. Yugoslavia 12.

GRAPH 1:
IMPORTS VS. EXPORTS OF MANUFACTURED FIBER

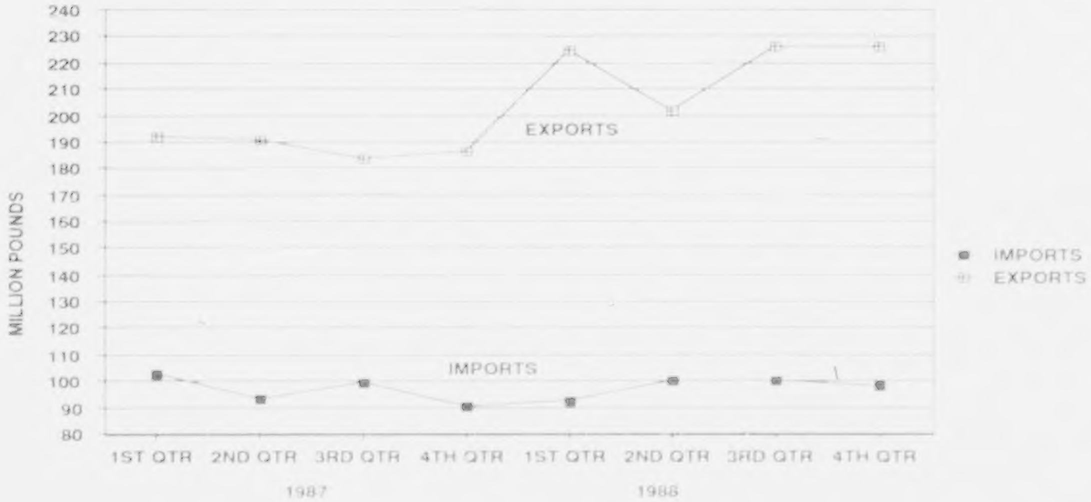

TABLE 7:
MANUFACTURED FIBER QUARTERLY TRADE BALANCE
MILLION POUNDS

	CELLULOSIC YARN & MONOFIL			CELLULOSIC STAPLE+TOW			NONCELLULOSIC YARN & MONOFIL			NONCELLULOSIC STAPLE+TOW			CELLULOSIC WASTE			NONCELLULOSIC WASTE			TOTAL		
	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL
1987																					
1ST QUARTER	3.0	1.8	1.2	4.1	9.1	+5.0	34.1	55.2	+21.1	48.9	94.7	+45.8	0	0.4	0.4	13.0	30.7	17.7	103.1	191.9	-88.8
2ND QUARTER	2.5	1.5	-1.0	3.9	8.5	+4.6	29.0	57.3	+28.3	46.1	93.9	+47.8	+	0.2	0.2	11.9	28.9	17.0	93.4	190.3	-96.9
3RD QUARTER	2.8	1.4	-1.4	3.0	13.2	+10.2	30.8	60.1	+29.3	52.4	85.2	+32.8	0	0.2	-0.2	10.6	23.8	13.2	99.6	183.9	-84.3
4TH QUARTER	4.5	1.7	2.8	2.8	3.8	+1.0	30.0	58.6	+28.6	41.6	92.2	+50.6	0.1	0.2	0.1	11.5	30.1	18.6	90.5	186.6	-96.1
TOTAL	12.8	6.4	-6.4	13.8	34.6	+20.8	123.9	231.2	+107.3	189.0	366.0	+177.0	0.1	1.0	-0.9	47.0	113.5	-66.5	386.6	752.7	-366.1
1988																					
1ST QUARTER	4.0	2.4	-1.6	3.3	5.1	+1.8	29.8	74.0	+44.2	43.3	111.9	+68.6	+	0.6	-0.6	11.8	31.0	-19.2	92.2	225.0	-132.8
2ND QUARTER	4.0	3.9	-0.1	4.1	7.0	+2.9	28.1	70.3	+42.2	53.7	88.3	+34.6	0	0.4	-0.4	10.6	32.1	-21.5	100.5	202.0	-101.5
3RD QUARTER	4.4	3.7	-0.7	6.0	6.8	+0.8	30.2	79.1	+48.9	51.0	100.6	+49.6	0	0.7	-0.7	8.6	35.1	-26.5	100.2	226.0	-125.8
4TH QUARTER	5.2	2.6	-2.6	6.9	5.6	-1.3	28.1	73.6	+45.5	48.1	98.3	+50.2	+	0.2	-0.2	9.5	46.1	-36.6	97.8	226.4	-128.6
TOTAL	17.6	12.6	-5.0	20.3	24.5	+4.2	116.2	297.0	+180.8	196.1	399.1	+203.0	+	1.9	-1.9	40.5	144.3	-103.8	390.7	879.4	-488.7

SOURCES: The fiber import and export data are from the U.S. Bureau of the Census (Reports IM145X and EM522).

TABLE 8:
SELECTED U.S. MANUFACTURED FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	1988												YEAR TO DATE	
ITEMS & COUNTRY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	0	0	0	0	0	0	0	0	0	0	0	244
BRAZIL	54	0	28	55	28	13	69	29	36	36	28	77	453	622
CANADA	426	481	507	292	592	827	427	739	779	767	722	724	7283	3232
GERMANY, FED. REP. OF	353	635	281	227	388	313	358	355	315	336	732	699	4992	4907
JAPAN	277	131	45	121	62	63	54	17	27	34	69	13	913	1650
MEXICO	62	53	18	81	70	68	115	86	114	46	26	67	806	629
NETHERLANDS	190	229	228	289	142	104	176	218	266	73	271	229	2415	1205
ALL OTHER COUNTRIES [a]	11	1	21	67	44	178	35	86	109	12	173	42	779	322
TOTAL CELLULOSIC YARN	1373	1530	1128	1132	1326	1566	1234	1530	1646	1304	2021	1851	17641	12811
CELLULOSIC STAPLE+TOW														
CANADA	1088	774	974	797	1355	1551	1309	2131	1880	1604	1888	1201	16552	10953
ITALY	34	73	19	0	33	0	39	32	0	64	33	40	367	756
JAPAN	99	0	91	46	37	68	101	45	237	347	195	657	1923	1101
SWEDEN	0	41	45	0	20	0	0	0	0	0	0	0	106	457
UNITED KINGDOM	12	0	79	54	0	24	113	50	40	21	41	25	459	388
ALL OTHER COUNTRIES [b]	3	2	10	51	43	+	70	2	0	1	0	812	994	169
TOTAL CELLULOSIC STAPLE+TOW	1236	890	1218	946	1488	1643	1632	2260	2157	2037	2157	2735	20401	13824
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1436	1117	1665	894	172	530	803	630	1016	1089	769	367	10488	12529
BRAZIL	0	7	0	199	169	109	92	203	80	322	71	222	1481	19
CANADA	1448	1872	2178	2156	2451	1677	1568	2139	1766	2038	1996	1028	22317	17935
COSTA RICA	606	570	382	533	514	523	692	442	606	390	623	548	6429	6723
DENMARK	0	0	0	0	61	30	60	0	30	30	60	30	301	215
FRANCE	767	588	723	338	272	588	642	960	410	326	473	519	6606	5831
GERMANY, FED. REP. OF	1074	1355	1543	1078	1495	1270	1130	1342	1408	1115	1119	1141	15070	23527
IRELAND	37	34	74	114	150	78	192	114	138	118	157	120	1326	463
ISRAEL	388	309	176	304	182	254	273	281	208	208	191	208	2982	2660
ITALY	761	811	407	1678	941	412	1403	829	1051	747	732	900	10672	12683
JAPAN	648	212	444	277	282	338	304	337	328	311	282	343	4105	6982
KOREA, REP. OF	3	23	33	63	0	40	1	0	0	0	0	124	287	448
MEXICO	1428	2004	1582	978	1622	1660	1545	1659	1758	1657	1943	2005	19809	20475
NETHERLANDS	49	42	26	31	57	4	16	10	116	25	37	1	414	1084
ROMANIA	12	58	41	160	122	519	0	0	0	0	0	0	912	166
SINGAPORE	81	41	44	19	34	35	23	23	23	44	23	68	458	485
TAIWAN	12	36	12	53	69	34	70	103	164	103	64	49	769	771
UNITED KINGDOM	676	753	684	632	917	751	819	1050	731	680	1163	1052	9908	8515
ALL OTHER COUNTRIES [c]	192	168	185	58	54	156	149	283	167	214	131	187	1944	2419
TOTAL NONCELLULOSIC YARN	9618	10000	10199	9565	9564	9008	9782	10405	10000	9417	9834	8912	116278	123930
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	601	727	752	1321	296	481	506	867	270	471	235	0	6527	2255
AUSTRALIA	38	0	36	19	0	164	46	18	19	70	51	30	491	262
BELGIUM	35	0	18	18	634	0	18	193	10	0	39	0	965	181
BRAZIL	0	0	0	0	0	0	0	0	0	0	140	0	140	1698
CANADA	2003	2183	2981	2720	2797	2353	2353	2020	2692	2590	2195	1916	28803	29320
FRANCE	934	799	800	957	1257	934	826	1220	675	926	881	1016	11225	7950
GERMANY, FED. REP. OF	2738	3040	2503	2478	3319	2475	2793	3377	2357	2381	2639	3899	33999	31920
INDIA	0	0	0	5	2575	2050	1556	2239	1068	1070	0	2	12020	1
IRELAND	80	123	162	325	406	240	362	201	312	376	148	329	3064	1869
ITALY	130	362	145	241	5	37	44	190	85	65	118	267	1689	12786
JAPAN	1963	2057	1894	2166	1912	3095	1771	3016	2187	2926	2566	2672	28284	23340
KOREA, REP. OF	1355	1516	1456	1580	1295	1604	2058	1908	2699	1931	1405	2171	20978	11716
MALAYSIA	0	95	48	48	0	95	48	48	0	48	48	0	478	564
MEXICO	303	549	210	502	985	1043	822	800	605	701	466	301	7287	20345
ROMANIA	448	0	86	664	230	893	0	0	53	0	0	0	2374	4466
SWITZERLAND	102	21	153	189	123	122	160	127	148	72	159	147	1523	1230
TAIWAN	1986	1109	1425	1112	1024	1384	549	1172	1321	493	195	280	12050	22615
UNITED KINGDOM	1604	1503	2175	1920	1777	1745	1184	2046	1495	2501	2655	2719	23324	15002
ALL OTHER COUNTRIES [d]	22	30	12	85	16	25	146	283	49	17	11	237	933	1465
TOTAL NONCELLULOSIC STAPLE+TOW	14342	14114	14856	16350	18651	18740	15242	19725	16045	16638	13951	15986	196154	188985

+ Less than 1 thousand pounds

a. United Kingdom 325, Morocco 171, Singapore 108, France 65, Korea, Rep. of 51, Taiwan 37, Norway 12, Italy 7, Australia 3.

b. Austria 916, France 70, Germany, Fed. Rep. of 2, Luxembourg 2, Mexico 2, Belgium 2.

c. Spain 437, Chile 312, Argentina 179, Australia 166, Sweden152, Norway 117, Gibraltar 106, Turkey 100, Ecuador 89, Austria 8, Luxembourg 82, Switzerland 78, China, PRC 20, Hong Kong 17, Thailand 4, Sri Lanka 1.

d. Gibraltar 259, Netherlands 228, Israel 102, New Caledonia 70, Finland 72, Hong Kong 65, Denmark 56, Germany, Dem. Rep. 56, Spain 10, China, PRC 6, Egypt 5, Greece 2, Portugal 2, Philippines

TABLE 9:
U.S. MANUFACTURED FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	0	+	0	64	18	16	60	56	93	269	495	412	1483	305
OTHER	310.0130 & .0230[a]	1362	1468	1021	995	1210	1412	1174	1318	1496	945	1451	1386	15238	12267
MONOFILAMENTS	309.0310 & .0610	0	+	0	1	1	0	0	3	1	0	0	1	7	12
STRIPS, $1/LB & UNDER	309.2000*	11	62	107	72	97	138	0	153	56	90	75	52	913	227
SUBTOTAL ABOVE		1373	1530	1128	1132	1326	1566	1234	1530	1646	1304	2021	1851	17641	12811
STAPLE	309.4320 & .4325	1182	889	1107	934	1354	1492	1406	2123	1995	1805	2078	2672	19037	12931
GROUPED FILAMENTS	309.3010 & .3310	54	1	111	14	134	151	226	137	162	232	79	63	1364	893
SUBTOTAL ABOVE		1236	890	1218	948	1488	1643	1632	2260	2157	2037	2157	2735	20401	13824
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	0	1	4	0	0	0	0	0	0	0	0	2	7	85
NONCELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	341	297	204	271	150	176	175	235	223	289	160	158	2679	2035
450 DENIER AND OVER	310.0108 & .0208	1503	1643	1531	2018	1472	1080	1980	1799	1177	1062	1029	1427	17721	26755
- POLYESTER	310.0110 & .0210	989	1368	1024	881	1327	1749	1054	1116	1363	1387	1685	1117	15060	15580
- OTHER	310.0114 & .0214	2158	1829	2816	1920	1882	1811	2234	2290	2567	2558	1965	1189	25188	24088
OTHER - NYLON	310.0149 & .0249	1154	1567	1386	1249	1672	1267	1226	1732	1463	1335	1820	1902	17773	22839
- POLYESTER	310.0150 & .0250	2153	1631	1733	1657	1707	1719	1992	1964	1920	1476	1803	1842	21596	19425
- OTHER	310.0170 & .0270[b]	762	1085	876	922	469	453	418	493	658	680	783	605	8204	6777
MONOFILAMENTS	309.0200 & .0330[c]	381	384	307	374	454	483	418	510	355	357	298	474	4801	3804
STRIPS, OVER $1/LB	309.2100 & .2500*	177	196	322	273	431	270	285	266	274	273	291	198	3256	2627
SUBTOTAL ABOVE		9618	10000	10199	9565	9564	9008	9782	10405	10000	9417	9834	8912	116278	123930
STAPLE - NYLON	309.4331 & .4351	1696	1306	1915	2115	1707	1284	1468	1724	2177	2636	1842	2074	21944	38955
- POLYESTER	309.4336 & .4361	4653	5670	4716	4933	7498	8268	6130	8251	7923	5495	4019	4187	73198	70721
- ACRYLIC	309.4366	1214	953	1179	1399	1647	1377	1257	1513	533	1308	1252	1757	15389	15716
- OLEFIN	309.4371	83	104	534	499	165	174	40	99	0	167	207	4	2075	514
- OTHER	309.4341 & .4390	1350	1625	1750	2008	969	1908	1239	1632	1279	1694	1167	1157	17778	12992
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3713	2877	3289	3285	4091	3619	3596	3785	2430	2612	2879	4035	40211	32248
POLYESTER	309.3040 & .3340	441	215	65	421	304	377	426	701	278	602	342	183	4355	3139
ACRYLIC	309.3050 & .3350	1086	1331	1249	1664	1631	1702	992	1855	1348	1939	2113	2448	19418	13000
OTHER	309.3065 & .3365	106	33	159	26	639	31	94	165	77	185	130	141	1786	1700
SUBTOTAL ABOVE		14342	14114	14856	16350	18651	18740	15242	19725	16045	16638	13951	15986	196154	188985
WASTE, NOT ADVANCED															
- NYLON	309.6625	2940	1991	1933	1842	2391	2267	1716	1344	1323	1423	1853	1489	22512	26926
- POLYESTER	309.6630	550	486	1073	637	470	1233	716	500	1153	933	1333	1029	10113	9170
- ACRYLIC	309.6645	0	0	21	110	0	2	0	0	0	2	32	0	167	306
- OTHER	309.6660	221	273	392	157	271	260	101	241	194	256	182	29	2577	4666
NOILS & GARNETTED FIBERS	309.7000*	76	0	0	33	0	0	0	0	0	0	0	0	109	162
OTHER WASTE, ADVANCED	309.7525 - .7555	596	596	637	323	366	280	286	435	565	393	289	260	5026	5727
SUBTOTAL ABOVE		4383	3346	4056	3102	3498	4042	2819	2520	3235	3007	3689	2807	40504	46957
TOTAL MANUFACTURED ABOVE		30952	29881	31461	31097	34527	34999	30709	36440	33083	32403	31652	32293	390985	386592
OTHER MANUFACTURED FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0	0	0	0	0	0	0	0	+	5
- NONCELLULOSIC	310.1015[d] & .1205[e]	340	167	184	216	276	176	197	156	122	199	124	146	2303	3999
OTHER - CELLULOSIC	310.1030 & .1535[f]	15	21	34	34	19	22	16	42	50	79	30	20	382	553
- NONCELLULOSIC	310.1050 & .1070[g]	277	268	330	289	338	303	279	358	309	343	309	300	3703	3314
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	62	95	137	20	94	74	112	47	49	70	35	19	814	1541
- OTHER	310.4015 & .4027[i]	2503	1471	1826	1389	2219	2829	1874	2062	2012	1179	1469	1373	22206	37128
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	2122	1933	1536	1956	1629	1099	2762	997	1451	2776	2542	2108	22911	28029
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	607	877	571	585	661	789	600	556	652	496	623	615	7632	8338
SLIVER, TOPS & ROVING	309.9000	271	287	351	530	234	181	359	398	63	161	530	549	3914	5537
GLASS FIBER	309.2800 & .2900[k]	2526	2429	2602	2286	2271	2344	2110	2469	1927	2373	1530	1333	26200	29465
GRAND TOTAL ABOVE		39675	37429	39032	38402	42268	42816	39018	43525	39718	40079	40332	38756	481050	504501

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

- + Less than 1 thousand pounds.
- * These items are not reported by the Census Bureau as cellulosic vs noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

[a] Also includes 310.0610.

[b] Also includes 310.0530, .0550, .0630 & .0650.

[c] Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

[d] There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

[e] Also includes 310.1210.

[f] Also includes 310.2110.

[g] Also includes 310.1510, .1514, .1550, .1555, .1570, .2050, .2130 & .2150.

[h] Also includes 310.5005 & .5030.

[i] Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

[j] Also includes 310.9320 & .9500.

[k] Chiefly roving. Also includes 309.9800 & .9900.

TABLE 10:
U.S. EXPORTS OF MANUFACTURED FIBER
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
FILAMENT YARN[a]															
TEXTURED	310.0004	27	2	6	31	61	5	11	59	10	5	4	27	248	614
OTHER[b]	310.0026	683	991	556	1220	1231	1269	582	1212	1765	730	781	1029	12049	5428
MONOFILAMENTS	309.0110	89	36	5	36	9	45	0	28	9	0	0	1	258	285
STRIPS	309.2210	0	23	0	0	10	2	0	1	0	25	31	10	102	100
SUBTOTAL ABOVE		**799**	**1052**	**567**	**1287**	**1311**	**1321**	**593**	**1300**	**1784**	**760**	**816**	**1067**	**12657**	**6427**
STAPLE+TOW-RAYON	309.4222	1019	1907	1702	1468	2682	2250	1615	2034	2492	2145	1138	1308	21760	32781
STAPLE-ACETATE	309.4219	89	66	309	329	146	97	209	126	374	318	368	364	2795	1721
SUBTOTAL ABOVE		**1108**	**1973**	**2011**	**1797**	**2828**	**2347**	**1824**	**2160**	**2866**	**2463**	**1506**	**1672**	**24555**	**34502**
WASTE, ADVANCED & NOT ADVANCED	309.7400	**143**	**251**	**198**	**86**	**263**	**42**	**432**	**235**	**80**	**97**	**50**	**44**	**1921**	**1090**
NONCELLULOSIC FIBER															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	3651	4775	4929	3355	4209	4685	5391	3916	5626	5748	4030	5387	55702	35048
- HIGH TENACITY[c]	310.0027	8372	8470	8040	6580	6438	6533	8344	4836	10656	7160	6374	5339	87142	78107
- OTHER	310.0029	786	1111	904	1186	1068	819	1072	978	841	1147	973	1231	12116	9142
POLYESTER - TEXTURED	310.0010	1739	2796	3405	2979	3311	2690	2371	5279	4051	2877	4547	3547	39592	25057
- HIGH TENACITY[c]	310.0032	1421	1817	2189	2281	2706	2059	2534	2410	3092	2550	2235	2002	27296	24961
- OTHER[d]	310.0034	207	225	265	284	135	68	233	134	55	278	921	222	3033	1794
OTHER - TEXTURED	310.0014	1067	1904	2220	1725	2118	1459	1720	1640	1879	2382	1825	1763	21702	18119
- OLEFIN	310.0040	83	626	121	143	161	160	258	322	330	187	383	100	2874	940
- OTHER	310.0044	360	729	886	802	688	699	507	468	381	438	541	320	6819	6799
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	658	728	515	983	523	623	289	649	399	488	289	516	6660	6663
POLYESTER	309.0140	1641	1789	2345	1784	1871	1713	1992	1990	1345	1514	1650	1382	21016	12294
OTHER	309.0170	680	901	768	769	847	603	553	705	754	964	630	591	8765	7453
STRIPS	309.2220 & .2270	415	192	277	442	454	394	346	377	340	195	507	422	4361	4805
SUBTOTAL ABOVE		**21080**	**26063**	**26864**	**23313**	**24529**	**22505**	**25616**	**23704**	**29749**	**25928**	**24905**	**22822**	**297078**	**231182**
STAPLE - NYLON	309.4240	2423	1511	1760	981	1387	1491	1575	2125	2280	1867	1725	2315	21440	23447
- POLYESTER	309.4242	13519	7586	10316	10132	11435	11625	13750	11140	12917	16383	12602	12571	143976	168127
- ACRYLIC	309.4245	17224	11389	16118	7723	12187	4510	8350	11085	13735	10212	10364	7338	130235	67074
- OLEFIN	309.4246	1488	1604	2696	2137	1784	1876	1683	561	1102	1341	1312	1210	18794	21433
- OTHER	309.4247	1228	1696	3193	1951	2312	2229	1358	2437	2178	2065	1988	1477	24112	35295
GROUPED FILAMENTS															
NYLON	309.3220	693	497	469	339	601	746	639	761	632	725	389	643	7134	5483
POLYESTER[d]	309.3240	2108	1330	2067	794	2046	1953	1230	1764	1740	1953	1746	1707	20438	20573
ACRYLIC	309.3250 & .3255	4967	2172	3809	2267	3498	2338	3049	1753	2746	3452	1510	1410	32971	24497
SUBTOTAL ABOVE		**43650**	**27785**	**40428**	**26324**	**35250**	**26768**	**31634**	**31626**	**37330**	**37998**	**31636**	**28671**	**399100**	**365929**
WASTE, ADVANCED & NOT ADVANCED															
- NYLON	309.7620	685	1210	1189	1492	1287	2199	1489	1661	1596	1252	3185	1595	18840	11686
- POLYESTER	309.7630	3959	4435	6616	4231	4813	5219	3829	6994	6607	4901	6127	7747	65478	56412
- ACRYLIC	309.7640	312	1219	923	676	970	795	671	597	620	607	529	1769	9688	9569
- OTHER	309.7660	3765	3582	3138	3474	3605	3309	3019	3970	4094	6985	5087	6358	50386	35860
SUBTOTAL ABOVE		**8721**	**10446**	**11866**	**9873**	**10675**	**11522**	**9008**	**13222**	**12917**	**13745**	**14928**	**17469**	**144392**	**113527**
TOTAL MANUFACTURED ABOVE		**75501**	**67570**	**81934**	**62680**	**74856**	**64505**	**69107**	**72247**	**84726**	**80991**	**73841**	**71745**	**879703**	**752657**
GLASS FIBER	309.2700 & .9700	8813	9352	9114	8934	7139	8164	9712	9075	8429	9290	8716	9792	106530	85378
GRAND TOTAL ABOVE		**84314**	**76922**	**91048**	**71614**	**81995**	**72669**	**78819**	**81322**	**93155**	**90281**	**82557**	**81537**	**986233**	**838035**

SOURCE: U.S. Census Bureau Report EM522.

a. Includes singles and plied yarn.

b. Includes an undetermined amount of rayon tire cord.

c. Includes a undetermined amount of noncellulosic tire cord.

d. Includes zero twist yarns.

e. These data are obviously incorrect because of misclassification. Most of these poundages should be included with filament yarn.

TABLE 11:
QUARTERLY MANUFACTURED FIBER DATA

MILLION POUNDS

ITEM	1986					1987					1988				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						YARN+MONOFILAMENTS									
CELLULOSIC YARN [d]															
PRODUCTION	54.3	54.7	54.1	51.7	214.8	46.2	46.7	45.2	53.0	191.1	49.1	54.4	54.9	55.5	213.9
SHIPMENTS - DOMESTIC	48.6	50.4	47.7	45.4	192.1	39.2	43.6	40.2	43.8	166.8	41.4	47.3	45.8	48.1	182.6
- EXPORT	4.7	5.1	4.9	5.5	20.2	5.0	5.9	6.1	7.9	24.9	8.7	7.9	10.0	7.5	34.1
TOTAL SHIPMENTS	53.3	55.5	52.6	50.9	212.3	44.2	49.5	46.3	51.7	191.7	50.1	55.2	55.8	55.6	216.7
ENDING STOCK	13.3	12.5	14.0	14.8		16.8	14.0	12.9	14.2		13.2	12.4	11.5	11.4	
IMPORTS	3.9	4.6	3.6	4.1	16.2	3.0	2.5	2.7	4.4	12.6	4.0	4.0	4.4	5.2	17.6
TOTAL AVAILABLE	52.5	55.0	51.3	49.5	208.3	42.2	46.1	42.9	48.2	179.4	45.4	51.3	50.2	53.3	200.2
NYLON															
PRODUCTION	396.9	396.5	398.3	414.6	1606.3	414.1	427.5	432.9	422.7	1697.2	431.7	440.0	428.8	427.0	1727.5
SHIPMENTS - DOMESTIC	363.4	368.7	377.7	370.6	1480.4	389.3	394.8	405.8	364.4	1554.3	387.8	395.4	391.1	398.1	1572.4
- EXPORT	26.7	28.2	25.1	32.8	112.8	32.1	37.9	33.7	35.8	139.5	39.6	38.1	41.5	46.8	166.0
TOTAL SHIPMENTS	390.1	396.9	402.8	403.4	1593.2	421.4	432.7	439.5	400.2	1693.8	427.4	433.5	432.6	444.9	1738.4
ENDING STOCK	126.5	126.1	121.6	132.8		125.5	120.3	113.7	136.2		140.5	147.0	143.2	125.3	
OLEFIN [a]															
PRODUCTION	245.9	255.7	259.5	296.6	1057.7	255.8	283.9	287.4	306.7	1133.8	301.6	308.9	291.7	302.0	1204.2
SHIPMENTS - DOMESTIC	241.3	258.4	257.8	291.7	1049.2	261.5	231.8	287.5	304.7	1135.5	298.3	302.5	287.7	295.6	1184.1
- EXPORT	2.4	2.9	2.6	2.6	10.5	2.7	1.7	1.8	2.1	8.3	2.7	5.9	6.0	5.2	19.8
TOTAL SHIPMENTS	243.7	261.3	260.4	294.3	1059.7	264.2	283.5	289.3	306.8	1143.8	301.0	308.4	293.7	300.8	1203.9
ENDING STOCK	67.1	61.5	60.6	62.9		54.5	54.9	53.0	52.9		53.5	54.0	52.0	53.2	
POLYESTER															
PRODUCTION	322.2	271.5	285.5	293.5	1172.7	287.7	303.3	293.9	293.8	1178.7	284.5	313.5	304.6	326.1	1228.7
SHIPMENTS - DOMESTIC	284.8	253.5	273.7	280.4	1092.4	266.8	285.2	280.8	280.6	1113.4	266.7	291.9	278.2	320.6	1157.4
- EXPORT	21.8	23.8	14.3	17.4	77.3	16.4	18.4	15.8	16.3	66.9	18.8	17.8	16.7	21.4	74.7
TOTAL SHIPMENTS	306.6	277.3	288.0	297.8	1169.7	283.2	303.6	296.6	296.9	1180.3	285.5	309.7	294.9	342.0	1232.1
ENDING STOCK	123.5	117.7	115.2	110.9		115.4	115.1	112.4	109.3		108.3	112.1	121.8	105.9	
TOTAL NONCELLULOSIC ABOVE															
PRODUCTION	965.0	923.7	943.3	1004.7	3836.7	957.6	1014.7	1014.2	1023.2	4009.7	1017.8	1062.4	1025.1	1055.1	4160.4
SHIPMENTS - DOMESTIC	889.5	880.6	909.2	942.7	3622.0	917.6	961.8	974.1	949.7	3803.2	952.8	989.8	957.0	1014.3	3913.9
- EXPORT	50.9	54.9	42.0	52.8	200.6	51.2	58.0	51.3	54.2	214.7	61.1	61.8	64.2	73.4	260.5
SHIPMENTS	940.4	935.5	951.2	995.5	3822.6	968.8	1019.8	1025.4	1003.9	4017.9	1013.9	1051.6	1021.2	1087.7	4174.4
ENDING STOCK	317.1	305.3	297.4	306.6		295.4	290.3	279.1	298.4		302.3	313.1	317.0	284.4	
DOMESTIC SHIPMENTS	889.5	880.6	909.2	942.7	3622.0	917.6	961.8	974.1	949.7	3803.2	952.8	989.8	957.0	1014.3	3913.9
IMPORTS - TEXTURED YARN [b]	17.9	19.5	20.4	24.1	81.9	19.3	15.1	17.2	16.9	68.5	15.7	14.7	16.1	14.1	60.6
- OTHER YARN [b]	12.3	13.9	14.7	14.0	54.9	13.3	12.4	11.9	11.3	48.9	11.2	11.1	11.9	13.4	47.6
- MONOFILAMENTS	0.8	0.6	0.5	0.8	2.7	0.8	0.9	1.0	1.1	3.8	1.8	2.3	2.0	2.0	8.1
TOTAL IMPORTS	31.0	34.0	35.6	38.9	139.5	33.4	28.4	30.1	29.3	121.2	28.7	28.1	30.0	29.5	116.3
TOTAL AVAILABLE	920.5	914.6	944.8	981.6	3761.5	951.0	990.2	1004.2	979.0	3924.4	981.5	1017.9	987.0	1043.8	4030.2
						GLASS FIBER									
TOTAL SHIPMENTS	330.6	352.6	333.9	322.2	1339.3	366.1	392.5	383.3	371.2	1513.1	386.4	415.2	405.9	410.2	1617.7
IMPORTS	7.9	6.0	4.4	5.4	23.7	4.9	5.6	11.3	7.6	29.4	5.6	7.1	6.5	7.0	26.2

FOOTNOTES FOR TABLE ABOVE & OPPOSITE:

"Imports" are imports for consumption, as reported by the U.S. Census Bureau

- a. Also include film fiber as well as spunbonded polypropylene.
- b. Includes singles and plied.
- c. These figures are composites of the nylon, acrylic+modacrylic and polyester staple imports, i.e., Commodity Numbers 309.4331, 4351, 4336 & 4361.
- d. Includes both rayon & acetate yarn.
- e. These figures are composites of olefin and other staple imports, i.e. Commodity Numbers 309.4371, 4341 & 4390.
- f. 1987-1988 data exclude Vinyon.

TABLE 11:
QUARTERLY MANUFACTURED FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1986					1987					1988				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
								STAPLE+TOW							
RAYON															
PRODUCTION	95.1	99.7	103.4	105.5	403.7	101.3	100.5	103.6	108.4	413.8	106.6	101.2	99.4	92.6	399.8
SHIPMENTS - DOMESTIC	91.6	92.0	95.1	94.3	373.0	91.8	91.0	97.9	102.4	383.1	101.9	102.0	94.0	88.1	386.0
- EXPORT	6.3	6.9	7.3	10.3	30.8	8.1	8.2	12.6	3.5	32.4	5.1	6.1	5.5	3.8	20.5
TOTAL SHIPMENTS	97.9	98.9	102.4	104.6	403.8	99.9	99.2	110.5	105.9	415.5	107.0	108.1	99.5	91.9	406.5
ENDING STOCK	19.7	20.5	21.5	22.4		23.8	25.1	18.2	20.7		20.3	13.4	13.3	14.0	
DOMESTIC SHIPMENTS	91.6	92.0	95.1	94.3	373.0	91.8	91.0	97.9	102.4	383.1	101.9	102.0	94.0	88.1	386.0
IMPORTS FOR CONSUMPTION															
STAPLE	3.9	3.6	4.6	4.3	16.4	3.9	3.8	2.6	2.7	13.0	3.2	3.8	5.5	6.5	19.0
GROUPED FILAMENTS	0.3	0.3	0.3	0.1	1.0	0.2	0.1	0.4	0.2	0.9	0.2	0.3	0.5	0.4	1.4
TOTAL IMPORTS	4.2	3.9	4.9	4.4	17.4	4.1	3.9	3.0	2.9	13.9	3.4	4.1	6.0	6.9	20.4
TOTAL AVAILABLE	95.8	95.9	100.0	98.7	390.4	95.9	94.9	100.9	105.3	397.0	105.3	106.1	100.0	95.0	406.4
NYLON															
PRODUCTION	220.5	207.4	236.1	244.3	908.3	247.4	261.0	252.8	231.2	992.4	231.5	235.9	226.6	247.7	941.7
SHIPMENTS-DOMESTIC	195.2	203.2	254.3	242.2	894.9	246.2	253.2	246.2	220.4	966.0	239.4	223.9	241.6	240.0	944.9
-EXPORT	3.9	2.9	3.0	3.5	13.3	5.3	5.0	3.7	5.5	19.5	4.3	4.3	4.9	5.5	19.0
TOTAL SHIPMENTS	199.1	206.1	257.3	245.7	908.2	251.5	258.2	249.9	225.9	985.5	243.7	228.2	246.5	245.5	963.9
ENDING STOCK	84.1	85.4	64.2	62.8		58.7	61.5	64.4	69.7		57.5	65.2	45.3	47.5	
IMPORTS	11.9	10.6	14.9	14.6	52.0	14.8	8.7	8.6	6.9	39.0	4.9	5.1	5.4	6.5	21.9
TOTAL AVAILABLE	207.1	213.8	269.2	256.8	946.9	261.0	261.9	254.8	227.3	1005.0	244.3	229.0	247.0	246.5	966.8
ACRYLIC+MODACRYLIC															
PRODUCTION	149.0	151.1	158.0	157.8	615.9	155.7	159.0	135.3	141.5	591.5	148.8	150.9	141.5	146.9	588.1
SHIPMENTS-DOMESTIC	123.1	143.7	138.7	125.7	531.2	139.4	131.6	112.8	95.5	479.3	109.0	109.3	107.3	95.5	421.1
-EXPORT	27.1	19.2	17.8	18.8	82.9	14.7	17.0	32.0	51.4	115.1	47.7	29.1	39.8	52.5	169.1
TOTAL SHIPMENTS	150.2	162.9	156.5	144.5	614.1	154.1	148.6	144.8	146.9	594.4	156.7	138.4	147.1	148.0	590.2
ENDING STOCK	63.2	51.4	52.9	66.2		67.8	78.2	68.7	63.3		55.4	67.9	62.3	61.2	
IMPORTS	3.2	4.0	5.3	4.9	17.4	3.3	4.1	4.6	3.7	15.7	3.3	4.4	3.3	4.3	15.3
TOTAL AVAILABLE	126.3	147.7	144.0	130.6	548.6	142.7	135.7	117.4	99.2	495.0	112.3	113.7	110.6	99.8	436.4
OLEFIN+VINYON [1]															
PRODUCTION	82.4	82.3	84.7	85.9	335.3	85.5	92.3	92.1	90.6	360.5	94.3	94.5	85.9	89.3	364.0
SHIPMENTS-DOMESTIC	73.9	82.6	76.4	79.8	312.7	81.1	85.7	86.1	88.2	341.1	83.8	87.6	84.8	88.0	344.2
-EXPORT	4.2	4.8	4.8	5.0	18.8	6.9	5.7	5.4	4.8	22.8	5.6	5.8	4.4	3.8	19.6
TOTAL SHIPMENTS	78.1	87.4	81.2	84.8	331.5	88.0	91.4	91.5	93.0	363.9	89.4	93.4	89.2	91.8	363.8
ENDING STOCK	34.0	28.9	32.4	33.5		31.0	31.9	32.5	30.1		35.0	36.1	32.8	30.3	
POLYESTER															
PRODUCTION	520.8	538.7	522.1	550.7	2132.3	581.0	596.2	578.4	606.2	2361.8	587.4	619.5	604.3	640.6	2451.8
SHIPMENTS-DOMESTIC	499.1	499.9	496.3	503.3	1998.6	534.4	549.9	537.5	579.2	2201.0	558.3	572.5	551.2	629.8	2311.8
-EXPORT	25.7	25.0	31.6	42.5	124.8	48.2	47.0	38.3	34.7	168.2	27.8	31.1	38.2	40.0	137.1
TOTAL SHIPMENTS	524.8	524.9	527.9	545.8	2123.4	582.6	596.9	575.8	613.9	2369.2	586.1	603.6	589.4	669.8	2448.9
ENDING STOCK	151.0	164.8	159.0	163.9		162.3	161.6	164.2	156.5		157.8	173.7	188.6	159.4	
IMPORTS	9.3	8.9	8.7	13.9	40.8	15.5	17.4	23.4	14.4	70.7	15.0	20.7	22.3	15.2	73.2
TOTAL AVAILABLE	508.4	508.8	505.0	517.2	2039.4	549.9	567.3	560.9	593.6	2271.7	573.3	593.2	573.5	645.0	2385.0
TOTAL NONCELLULOSIC															
PRODUCTION	972.7	979.5	1000.9	1038.7	3991.8	1069.6	1108.5	1058.6	1069.5	4306.2	1062.0	1100.8	1058.3	1124.5	4345.6
SHIPMENTS-DOMESTIC	891.3	929.4	965.7	951.0	3737.4	1001.1	1020.4	982.6	983.3	3987.4	990.5	993.3	984.9	1053.3	4022.0
-EXPORT	60.9	51.9	57.2	69.8	239.8	75.1	74.7	79.4	96.4	325.6	85.4	70.3	87.3	101.8	344.8
TOTAL SHIPMENTS	952.2	981.3	1022.9	1020.8	3977.2	1076.2	1095.1	1062.0	1079.7	4313.0	1075.9	1063.6	1072.2	1155.1	4366.8
ENDING STOCK	332.3	330.5	308.5	326.4		319.8	333.2	329.8	319.6		305.7	342.9	329.0	298.4	
DOMESTIC SHIPMENTS	891.3	929.4	965.7	951.0	3737.4	1001.1	1020.4	982.6	983.3	3987.4	990.5	933.3	984.9	1053.3	4022.0
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE [c]	24.4	23.5	28.9	33.4	110.2	33.6	30.2	36.6	25.0	125.4	23.2	30.2	31.0	26.0	110.4
OTHER N.C. STAPLE [e]	7.2	4.4	2.5	2.0	16.1	2.8	3.6	3.7	3.4	13.5	5.6	5.7	4.3	4.2	19.8
GROUPED FILAMENTS	14.4	15.0	14.7	12.4	56.5	12.4	12.4	12.1	13.1	50.0	14.5	17.8	15.7	17.8	65.8
TOTAL IMPORTS	46.0	42.9	46.1	47.8	182.8	48.8	46.2	52.4	41.5	188.9	43.3	53.7	51.0	48.0	196.0
TOTAL AVAILABLE	937.3	972.3	1011.8	998.8	3920.2	1049.9	1066.6	1035.0	1024.8	4176.3	1033.8	1047.0	1035.9	1101.3	4218.0

See footnotes on opposite page.

TABLE 12:
SELECTED U.S. MONTHLY FIBER DATA
MILLION POUNDS

ITEM	1989												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
	MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]													
CELLULOSIC														
YARN	17.3												17.3	15.9
RAYON STAPLE	34.5												34.5	32.6
TOTAL CELLULOSIC	51.8												51.8	48.5
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	31.3												31.3	27.5
- CARPET	74.7												74.7	72.6
- TEXTILE[f]	33.7												33.7	30.0
POLYESTER - INDUSTRIAL[d]	28.6												28.6	26.5
- TEXTILE[f]	72.4												72.4	62.9
OLEFIN[e]	101.9												101.9	97.2
TOTAL YARN	342.6												342.6	316.7
STAPLE+TOW+FIBERFILL														
NYLON	82.3												82.3	78.4
ACRYLIC+MODACRYLIC	41.7												41.7	48.5
POLYESTER	200.5												200.5	187.7
OLEFIN	29.3												29.3	29.1
TOTAL STAPLE	353.8												353.8	343.7
TOTAL NONCELLULOSIC	696.4												696.4	660.4
TOTAL MAN-MADE FIBER	748.2												748.2	708.9
	MANUFACTURED FIBER END-OF-MONTH STOCK													
CELLULOSIC														
YARN	15.5												15.5	12.3
RAYON STAPLE	13.0												13.0	23.5
TOTAL CELLULOSIC	28.5												28.5	35.8
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.4												24.4	26.6
- CARPET	63.5												63.5	72.0
- TEXTILE[f]	47.5												47.5	54.6
POLYESTER - INDUSTRIAL[d]	35.0												35.0	29.8
- TEXTILE[f]	73.7												73.7	82.5
OLEFIN[e]	53.0												53.0	54.4
TOTAL YARN	297.1												297.1	319.9
STAPLE+TOW+FIBERFILL														
NYLON	51.8												51.8	63.4
ACRYLIC+MODACRYLIC	70.6												70.6	62.4
POLYESTER	163.5												163.5	171.5
OLEFIN	31.0												31.0	32.5
TOTAL STAPLE	316.9												316.9	329.8
TOTAL NONCELLULOSIC	614.0												614.0	649.7
TOTAL MAN-MADE FIBER	642.5												642.5	685.5
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL														
CARPET CLASS WOOL														
TOTAL RAW WOOL														
RAW COTTON														

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

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TEXTILE ORGANON

Volume 60, No. 3 ☐ March 1989

A publication of *Textile Economics Bureau, Inc.*

Highlights

- Raw Fiber Equivalent of Imports, Exports & Balance...begins on page 40.
- Manufactured Fiber Producing Industry Employment in Selected Countries...see page 39.
- 1988: A Year in Perspective...begins on page 45.

SHIPMENTS:

In February, total manufactured fiber shipments reached 732 million pounds, 2% below the 747 million pounds shipped in January and 3% below the 757 million pounds shipped in February 1988.

February shipments of noncellulosic filament yarn fell 1% to 337 million pounds and staple+tow fell 3% to 346 million pounds.

Contributing to the decrease in shipments over the previous month were polyester staple down 5% or 10 million pounds and nylon staple down 4 million pounds or 5%.

Year-to-date domestic shipments of manufactured fiber are up 2% and exports are down 12%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1989 FEB	1989 JAN	% CHG 2/89-1/89	1988 FEB	% CHG 2/89-2/88	YEAR TO DATE 1989	YEAR TO DATE 1988	% CHG YTD 1989-1988
CELLULOSIC								
YARN	17.0	17.3	*-1.7*	16.1	*+5.6*	34.3	32.0	*+7.2*
RAYON STAPLE	32.1	34.5	*-7.0*	35.9	*-10.6*	66.6	68.5	*-2.8*
TOTAL CELLULOSIC	**49.1**	**51.8**	***-5.2***	**52.0**	***-5.6***	**100.9**	**100.5**	***+0.4***
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	30.5	31.3	*-2.6*	32.1	*-5.0*	61.8	59.6	*+3.7*
- CARPET	77.0	74.7	*+3.1*	80.7	*-4.6*	151.7	153.3	*-1.0*
- TEXTILE[a]	33.0	33.7	*-2.1*	31.2	*+5.8*	66.7	61.2	*+9.0*
POLYESTER - INDUSTRIAL	28.7	28.6	*+0.3*	29.3	*-2.0*	57.3	55.8	*+2.7*
- TEXTILE[a]	70.6	72.4	*-2.5*	68.4	*+3.2*	143.0	131.3	*+8.9*
OLEFIN	97.4	98.5	*-1.1*	101.4	*-3.9*	195.9	198.6	*-1.4*
TOTAL YARN	**337.2**	**339.2**	***-0.6***	**343.1**	***-1.7***	**676.4**	**659.8**	***+2.5***
STAPLE+TOW+FIBERFILL								
NYLON	78.4	82.3	*-4.7*	81.7	*-4.0*	160.7	160.1	*+0.4*
ACRYLIC+MODACRYLIC	46.2	41.7	*+10.8*	52.8	*-12.5*	87.9	101.3	*-13.2*
POLYESTER	190.1	200.5	*-5.2*	197.7	*-3.8*	390.6	385.4	*+1.3*
OLEFIN	31.4	31.0	*+1.3*	29.6	*+6.1*	62.4	58.7	*+6.3*
TOTAL STAPLE	**346.1**	**355.5**	***-2.6***	**361.8**	***-4.3***	**701.6**	**705.5**	***-0.6***
TOTAL NONCELLULOSIC	**683.3**	**694.7**	***-1.6***	**704.9**	***-3.1***	**1378.0**	**1365.3**	***+0.9***
TOTAL MANUFACTURED FIBER	**732.4**	**746.5**	***-1.9***	**756.9**	***-3.2***	**1478.9**	**1465.8**	***+0.9***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS[b]	690.6	700.1	*-1.4*	707.1	*-2.3*	1390.7	1365.9	*+1.8*
EXPORTS[c]	41.8	46.4	*-9.9*	49.8	*-16.1*	88.2	99.9	*-11.7*

[a] Includes low denier industrial yarn.
[b] Includes olefin exports.
[c] Excludes olefin exports.

Textile Organon

A Monthly Review

March 1989

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GRAPH 1:
MANUFACTURED FIBER PRODUCING INDUSTRY EMPLOYMENT IN SELECTED COUNTRIES

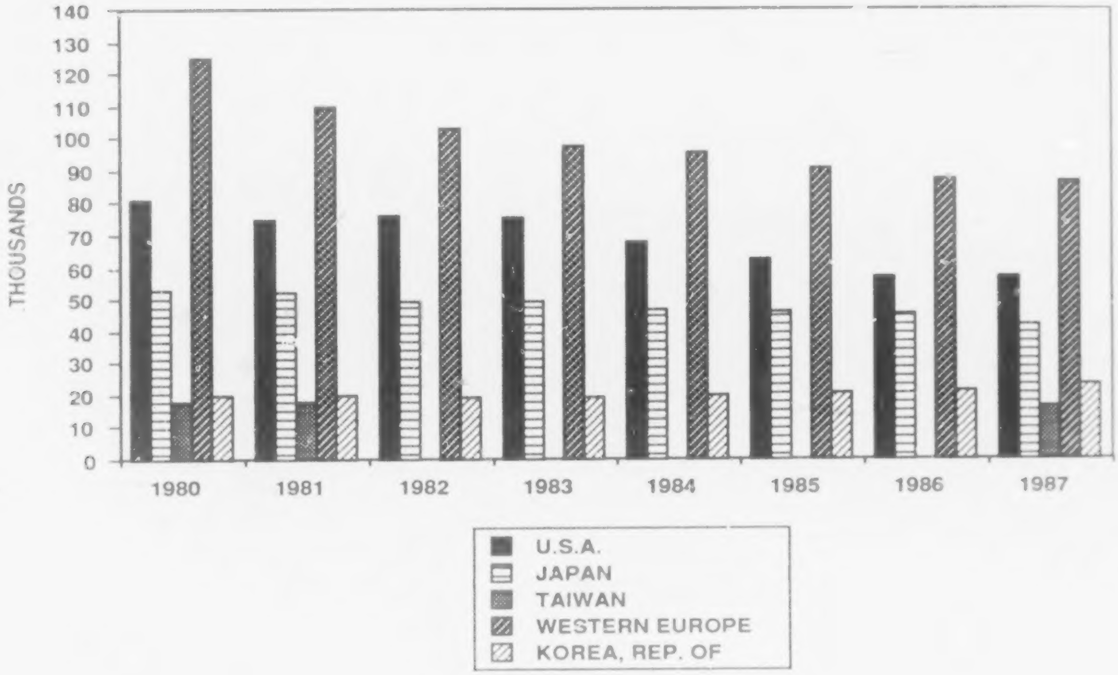
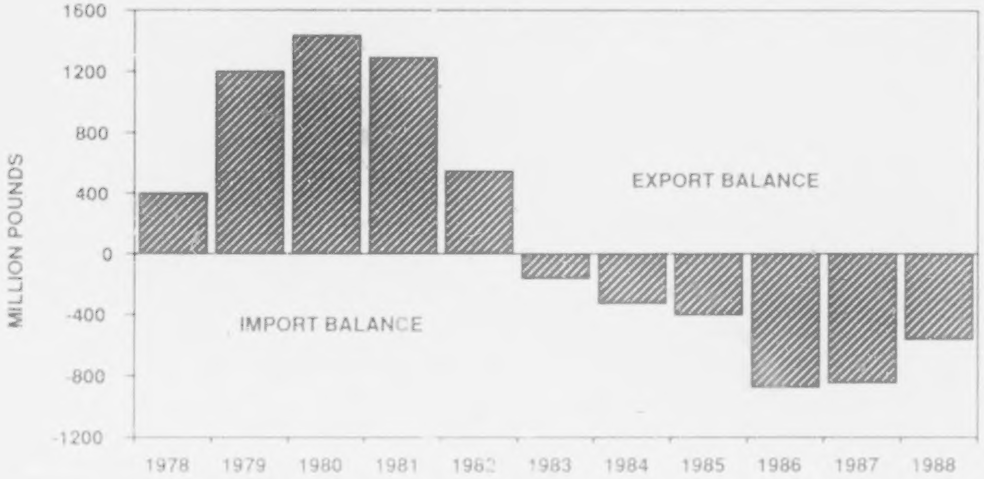


TABLE 2:
MANUFACTURED FIBER PRODUCING INDUSTRY EMPLOYMENT IN SELECTED COUNTRIES

	COUNTRY				
YEAR	U.S.A.	WESTERN EUROPE	JAPAN	TAIWAN	KOREA, REP. OF
1980	81,000	124,965	53,105	17,500	19,885
1981	74,800	109,837	52,130	18,005	19,745
1982	76,511	102,865	49,695		19,220
1983	75,418	97,425	49,200		19,230
1984	68,184	95,290	46,885		19,830
1985	62,558	90,700	46,195		20,325
1986	57,276	87,360	45,235		21,055
1987	57,090	86,375	41,570	27,600	23,335

SOURCE: C.I.R.F.S., Taiwan Man-Made Fiber Industry and *Textile Organon* estimate.
NOTE: Data include production, administration and technical department personnel.

GRAPH 2:
U.S. BALANCE OF TRADE IN MANUFACTURED FIBER & MANUFACTURES



GRAPH 3:
U.S. BALANCE OF TRADE IN MANUFACTURED FIBER VS. U.S. BALANCE OF TRADE IN MANUFACTURED FIBER MANUFACTURES

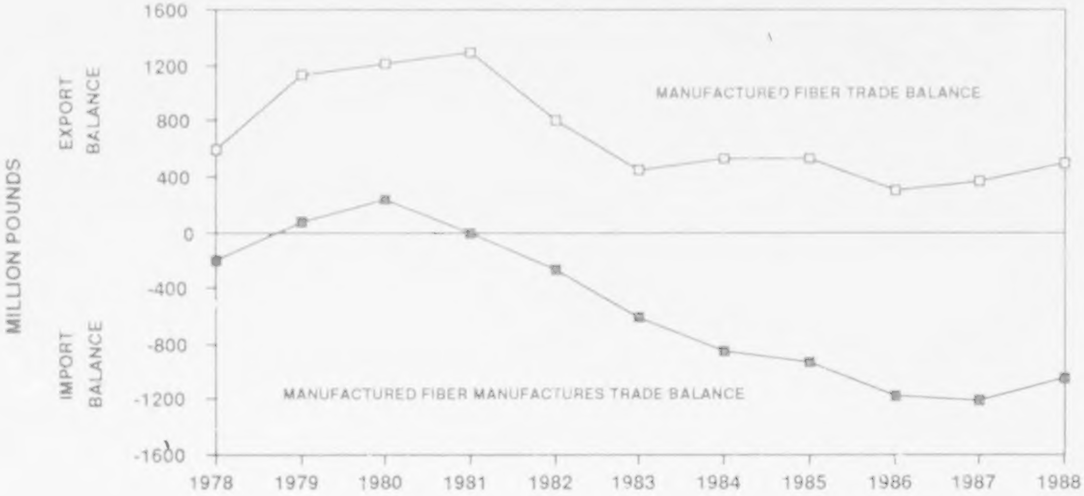


TABLE 3:

RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER MANUFACTURES

MILLION POUNDS

COMMODITY	1988												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC [a]	6.6	5.3	5.2	5.2	5.9	6.0	6.3	5.4	5.2	5.4	5.6	5.5	67.6	91.9
CLOTH [b]	17.0	14.1	16.7	19.1	18.8	20.0	18.2	18.6	14.6	17.9	15.6	15.1	205.7	211.7
SUBTOTAL	23.6	19.4	21.9	24.3	24.7	26.0	24.5	24.0	19.8	23.3	21.2	20.6	273.3	303.6
MANUFACTURED PRODUCTS														
WEARING APPAREL	82.4	76.1	64.7	63.4	83.3	103.3	104.9	107.0	87.3	81.9	71.7	65.7	991.7	1033.6
INDUSTRIAL [c]	1.0	1.1	1.1	1.1	1.0	0.8	0.8	0.9	0.9	1.1	1.2	0.6	11.6	5.6
HOME FURNISHINGS [d] }	35.0	38.4	37.8	34.4	39.8	41.2	39.7	42.5	38.0	37.9	37.9	36.5	459.1	462.6
ALL OTHER [e]														
SUBTOTAL	118.4	115.6	103.6	98.9	124.1	145.3	145.4	150.4	126.2	120.9	110.8	102.8	1462.4	1501.8
TOTAL IMPORTS	142.0	135.0	125.5	123.2	148.8	171.3	169.9	174.4	146.0	144.2	132.0	123.4	1735.7	1805.4
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC [a]	4.5	5.0	6.3	5.1	4.8	5.9	5.4	5.9	5.6	4.8	5.6	7.6	66.5	53.9
CLOTH [b]	17.5	18.0	23.4	21.2	21.5	19.4	18.3	21.2	21.0	20.6	21.6	22.4	246.1	209.9
SUBTOTAL	22.0	23.0	29.7	26.3	26.3	25.3	23.7	27.1	26.6	25.4	27.2	30.0	312.6	263.8
MANUFACTURED PRODUCTS														
WEARING APPAREL	6.3	6.8	8.3	7.6	7.8	7.0	7.0	7.3	7.6	7.3	7.8	7.4	88.2	82.5
INDUSTRIAL [c]	3.1	5.2	5.0	4.3	3.8	4.3	3.2	3.6	3.5	3.2	3.2	4.1	46.5	53.8
HOME FURNISHINGS [d]	7.7	9.3	13.1	12.8	14.1	12.1	10.6	11.0	14.3	11.7	10.8	10.5	138.0	101.0
ALL OTHER [e]	6.8	8.5	8.7	8.8	9.5	8.1	7.5	8.5	8.0	9.1	7.8	8.0	99.3	90.8
SUBTOTAL	23.9	29.8	35.1	33.5	35.2	31.5	28.3	30.4	33.4	31.3	29.6	30.0	372.0	328.1
TOTAL EXPORTS	45.9	52.8	64.8	59.8	61.5	56.8	52.0	57.5	60.0	56.7	56.8	60.0	684.6	591.9
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC [a]	2.1 I	0.3 I	1.1 E	0.1 I	1.1 I	0.1 I	0.9 I	0.5 E	0.4 E	0.6 I	0	2.1 E	1.1 I	38.0 I
CLOTH [b]	0.5 E	3.9 E	6.7 E	2.1 E	2.7 E	0.6 I	0.1 E	2.6 E	6.4 E	2.7 E	6.0 E	7.3 E	40.4 E	1.8 I
SUBTOTAL	1.6 I	3.6 E	7.8 E	2.0 E	1.6 E	0.7 I	0.8 I	3.1 E	6.8 E	2.1 E	6.0 E	9.4 E	39.3 E	39.8 I
MANUFACTURED PRODUCTS														
WEARING APPAREL	76.1 I	69.3 I	56.4 I	55.8 I	75.5 I	96.3 I	97.9 I	99.7 I	79.7 I	74.6 I	63.9 I	58.3 I	903.5 I	951.1 I
INDUSTRIAL [c]	2.1 E	4.1 E	3.9 E	3.2 E	2.5 E	3.4 E	2.5 E	2.7 E	2.6 E	2.1 E	2.0 E	3.5 E	34.9 E	48.2 E
HOME FURNISHINGS [d] }	20.5 I	20.6 I	16.0 I	12.8 I	16.2 I	21.0 I	21.6 I	23.0 I	15.7 I	17.1 I	19.3 I	18.0 I	221.8 I	270.8 I
ALL OTHER [f]														
SUBTOTAL	94.5 I	85.8 I	68.5 I	65.4 I	88.9 I	113.8 I	117.1 I	120.0 I	92.8 I	89.6 I	81.2 I	72.8 I	1090.4 I	1173.7 I
TOTAL BALANCE	96.1 I	82.2 I	60.7 I	63.4 I	87.3 I	114.5 I	117.9 I	116.9 I	86.0 I	87.5 I	75.2 I	63.4 I	1051.1 I	1213.5 I

SOURCE: U.S. Department of Agriculture, *Cotton and Wool Outlook & Situation*.

a. Includes sliver, tops, roving, plied (textured and other), thrown and spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here; rather they are included in Column 13 page 53 of this issue.

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980-1988 only; the corresponding quantities for each year are, respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1 & 73.4.

b. Includes broad & narrow woven fabrics and knit cloth.

c. The manufactured fiber data are tire cord & tire cord fabric.

d. Includes carpets & rugs. Lace window curtains are in All Other.

e. Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc.

f. Includes such products as lace & lace articles, polishing & dustcloths, braids, tassels, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

TABLE 4:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF COTTON MANUFACTURES
MILLION POUNDS

	1988												YEAR TO DATE	
COMMODITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC [a]	11.0	8.6	8.9	7.2	8.1	6.4	6.3	7.5	7.6	7.1	8.0	8.8	95.5	134.5
CLOTH [b]	37.9	41.5	43.6	40.9	36.1	36.7	35.8	37.1	35.0	38.4	38.3	45.1	466.4	649.9
SUBTOTAL	48.9	50.1	52.5	48.1	44.2	43.1	42.1	44.6	42.6	45.5	46.3	53.9	561.9	784.4
MANUFACTURED PRODUCTS														
WEARING APPAREL	124.8	116.6	96.7	81.7	92.7	118.9	116.3	113.6	96.7	101.2	99.2	96.0	1254.4	1265.6
INDUSTRIAL	5.7	5.8	4.8	3.9	3.8	4.5	3.1	4.1	2.9	3.8	4.2	4.8	51.4	53.2
HOME FURNISHINGS [c]	19.2	20.1	19.9	17.9	17.5	17.9	17.1	21.6	16.7	16.9	17.1	16.8	218.7	205.2
ALL OTHER [d]	2.7	2.4	2.9	2.7	2.8	2.9	2.6	3.3	2.5	2.5	2.7	2.4	32.4	27.3
SUBTOTAL	152.4	144.9	124.3	106.2	116.8	144.2	139.1	142.6	118.8	124.4	123.2	120.0	1556.9	1551.3
TOTAL IMPORTS	201.3	195.0	176.8	154.3	161.0	187.3	181.2	187.2	161.4	169.9	169.5	173.9	2118.8	2335.7
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC [a]	1.1	1.7	2.8	2.1	1.7	2.1	2.2	2.6	3.4	2.6	2.4	2.5	27.2	19.6
CLOTH [b]	7.9	7.0	8.9	7.9	8.1	8.1	6.1	7.0	9.0	7.5	8.9	10.2	96.6	107.3
SUBTOTAL	9.0	8.7	11.7	10.0	9.8	10.2	8.3	9.6	12.4	10.1	11.3	12.7	123.8	126.9
MANUFACTURED PRODUCTS														
WEARING APPAREL	8.7	9.5	12.0	10.7	10.4	9.2	9.3	10.1	10.8	10.7	10.5	11.2	123.1	108.4
INDUSTRIAL	1.7	1.9	2.4	2.3	2.4	2.5	2.0	2.2	2.5	2.4	2.6	2.5	27.4	21.7
HOME FURNISHINGS [c]	3.1	3.7	4.5	4.3	4.2	4.9	4.0	4.2	6.1	5.4	4.5	5.6	54.5	40.1
ALL OTHER [d]	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4	0.9
SUBTOTAL	13.6	15.2	19.0	17.5	17.2	16.7	15.4	16.6	19.5	18.6	17.7	19.4	206.4	171.
TOTAL EXPORTS	22.6	23.9	30.7	27.5	27.0	26.9	23.7	26.2	31.9	28.7	29.0	32.1	330.2	298.0
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC	9.9	6.9	6.1	5.1	6.4	4.3	4.1	4.9	4.2	4.5	5.6	6.3	68.3	114.9
CLOTH	30.0	34.5	34.7	33.0	28.0	28.6	29.7	30.1	26.0	30.9	29.4	34.9	369.8	542.6
SUBTOTAL	39.9	41.4	40.8	38.1	34.4	32.9	33.8	35.0	30.2	35.4	35.0	41.2	438.1	657.5
MANUFACTURED PRODUCTS														
WEARING APPAREL	116.1	107.1	84.7	71.0	82.3	109.7	107.0	103.5	85.9	90.5	88.7	84.8	1131.3	1157.2
INDUSTRIAL	4.0	3.9	2.4	1.6	1.4	2.0	1.1	1.9	0.4	1.4	1.6	2.3	24.0	31.5
HOME FURNISHINGS	16.1	16.4	15.4	13.6	13.3	13.0	13.1	17.4	10.6	11.5	12.6	11.2	164.2	165.1
ALL OTHER	2.6	2.3	2.8	2.5	2.6	2.8	2.5	3.2	2.4	2.4	2.6	2.3	31.0	26.4
SUBTOTAL	138.8	129.7	105.3	88.7	99.6	127.5	123.7	126.0	99.3	105.8	105.5	100.6	1350.5	1380.2
TOTAL BALANCE	178.7	171.1	146.1	126.8	134.0	160.4	157.5	161.0	129.5	141.2	140.5	141.8	1788.6	2037.7

SOURCE: U.S. Department of Agriculture, *Cotton and Wool Outlook & Situation*.

a. Includes sliver, tops, roving, plied (textured and other), spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here.

b. Includes broad & narrow woven fabrics and knit cloth. Cotton narrow fabrics are included in All Other.

c. Includes carpets and rugs, bed sheets, towels, tablecloths, etc. Lace window curtains are in All Other.

d. Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

TABLE 5:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF WOOL MANUFACTURES
MILLION POUNDS

COMMODITY	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1988	1987
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC [a]	0.9	0.9	1.2	1.0	1.3	1.3	1.2	1.2	0.8	1.3	1.0	1.0	13.1	14.6
CLOTH [b]	2.0	2.2	3.6	3.3	3.1	3.2	2.9	2.3	1.6	1.9	1.8	2.0	29.9	29.5
SUBTOTAL	**2.9**	**3.1**	**4.8**	**4.3**	**4.4**	**4.5**	**4.1**	**3.5**	**2.4**	**3.2**	**2.8**	**3.0**	**43.0**	**44.1**
MANUFACTURED PRODUCTS														
WEARING APPAREL [c]	7.5	6.6	5.6	6.7	11.2	16.7	19.8	22.7	17.4	14.5	9.4	6.2	144.3	158.9
INDUSTRIAL			NOMINAL QUANTITIES INCLUDED IN ALL OTHER											
HOME FURNISHINGS [d]	4.0	3.5	4.0	3.6	3.4	3.7	3.0	3.2	2.7	3.4	3.3	3.4	41.2	53.1
ALL OTHER [e]	1.6	1.0	1.4	1.4	0.8	1.4	0.8	0.9	0.8	1.1	0.9	1.8	13.9	2.2
SUBTOTAL	**13.1**	**11.1**	**11.0**	**11.7**	**15.4**	**21.8**	**23.6**	**26.8**	**20.9**	**19.0**	**13.6**	**11.4**	**199.4**	**214.2**
TOTAL IMPORTS	**16.0**	**14.2**	**15.8**	**16.0**	**19.8**	**26.3**	**27.7**	**30.3**	**23.3**	**22.2**	**16.4**	**14.4**	**242.4**	**258.3**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC [a]	0.8	0.8	1.2	0.9	1.0	1.6	1.8	1.2	1.7	1.3	2.5	1.7	16.5	12.7
CLOTH [b]	0.1	0.2	0.2	0.2	0.3	0.1	0.1	0.2	0.2	0.2	0.2	0.1	2.1	2.2
SUBTOTAL	**0.9**	**1.0**	**1.4**	**1.1**	**1.3**	**1.7**	**1.9**	**1.4**	**1.9**	**1.5**	**2.7**	**1.8**	**18.6**	**14.9**
MANUFACTURED PRODUCTS														
WEARING APPAREL	0.8	0.5	0.7	0.5	0.5	0.5	0.4	0.5	0.7	0.4	0.4	0.2	6.1	4.2
INDUSTRIAL			NOMINAL QUANTITIES INCLUDED IN ALL OTHER											
HOME FURNISHINGS [d]	+	+	+	+	+	+	+	0.1	+	+	0.1	0.1	0.3	0.2
ALL OTHER [f]	0.3	0.5	0.6	0.4	0.6	0.6	0.7	0.4	0.7	0.3	0.2	0.3	5.6	2.0
SUBTOTAL	**1.1**	**1.0**	**1.3**	**0.9**	**1.1**	**1.1**	**1.1**	**1.0**	**1.4**	**0.7**	**0.7**	**0.6**	**12.0**	**6.4**
TOTAL EXPORTS	**2.0**	**2.0**	**2.7**	**2.0**	**2.4**	**2.8**	**3.0**	**2.4**	**3.3**	**2.2**	**3.4**	**2.4**	**30.6**	**21.3**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC	0.1 I	0.1 I	0	0.1 I	0.3 I	0.3 E	0.6 E	0	0.9 E	0	1.5 E	0.7 E	3.4 E	1.9 I
CLOTH	1.9 I	2.0 I	3.4 I	3.1 I	2.8 I	3.1 I	2.8 I	2.1 I	1.4 I	1.7 I	1.6 I	1.9 I	27.8 I	27.3 I
SUBTOTAL	**2.0 I**	**2.1 I**	**3.4 I**	**3.2 I**	**3.1 I**	**2.8 I**	**2.2 I**	**2.1 I**	**0.5 I**	**1.7 I**	**0.1 I**	**1.2 I**	**24.4 I**	**29.2 I**
MANUFACTURED PRODUCTS														
WEARING APPAREL	6.7 I	6.1 I	4.9 I	6.2 I	10.7 I	16.2 I	19.4 I	22.2 I	16.7 I	14.1 I	9.0 I	6.0 I	138.2 I	154.7 I
INDUSTRIAL			NOMINAL QUANTITIES INCLUDED IN ALL OTHER											
HOME FURNISHINGS	4.0 I	3.5 I	4.0 I	3.6 I	3.4 I	3.7 I	3.0 I	3.1 I	2.7 I	3.4 I	3.2 I	3.3 I	40.9 I	52.9 I
ALL OTHER	1.3 I	0.5 I	0.8 I	1.0 I	0.2 I	0.8 I	0.1 I	0.5 I	0.1 I	0.8 I	0.7 I	1.5 I	8.3 I	0.2 I
SUBTOTAL	**12.0 I**	**10.1 I**	**9.7 I**	**10.8 I**	**14.3 I**	**20.7 I**	**22.5 I**	**25.8 I**	**19.5 I**	**18.3 I**	**12.9 I**	**10.8 I**	**187.4 I**	**207.8 I**
TOTAL BALANCE	**14.0 I**	**12.2 I**	**13.1 I**	**14.0 I**	**17.4 I**	**23.5 I**	**24.7 I**	**27.9 I**	**20.0 I**	**20.0 I**	**13.0 I**	**12.0 I**	**211.8 I**	**237.0 I**

SOURCE: U.S. Department of Agriculture, *Cotton and Wool Outlook & Situation.*

a. Includes sliver, tops, roving, plied (textured and other), spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here.

b. Includes broad & narrow woven fabrics. Wool knit fabrics are included in All Other.

c. Includes lace & lace articles, veils & veilings and nets & nettings.

d. Includes carpets and rugs.

e. Includes knit fabric in the piece, but not lace & lace articles, which are in Wearing Apparel.

f. Includes such products as braids, tassels, felts and knit fabrics.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

GRAPH 4:
U.S. TEXTILE INDUSTRY MONTHLY TRADE BALANCE - TRADE IN ALL FIBERS & MANUFACTURES

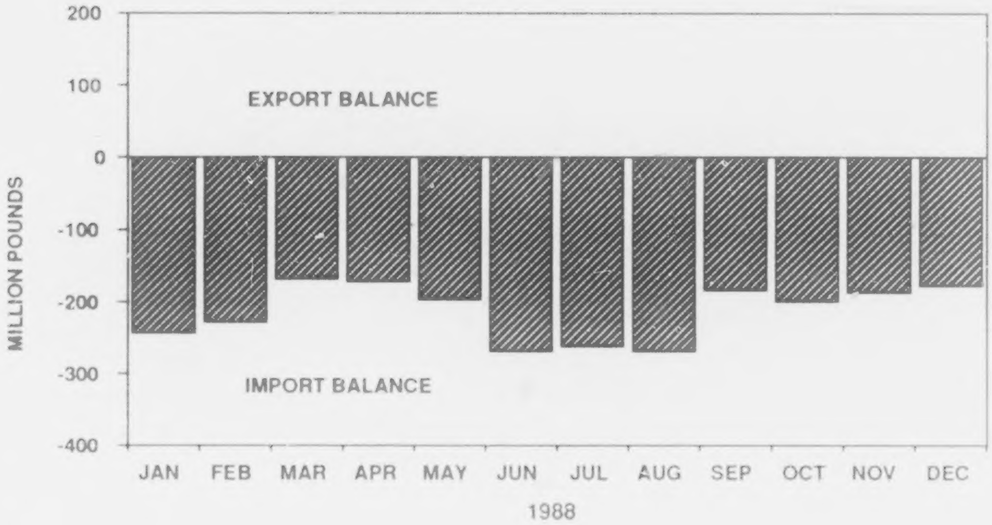


TABLE 6:
U.S. TEXTILE INDUSTRY MONTHLY TRADE BALANCE - TRADE IN ALL FIBERS AND MANUFACTURES

MILLION POUNDS

	MANUFACTURES				MANUFACTURED	U.S.
1988	MANUFACTURED IMP BALANCE	COTTON IMP BALANCE	WOOL IMP BALANCE	TOTAL IMP BALANCE	FIBER EXP BALANCE	INDUSTRY IMP BALANCE
JAN	96.1	178.7	14.0	288.8	44.5	244.3
FEB	82.2	171.1	12.2	265.5	37.7	227.8
MAR	60.7	146.1	13.1	219.9	50.5	169.4
APR	63.4	126.8	14.0	204.2	31.6	172.6
MAY	87.3	134.0	17.4	238.7	40.3	198.4
JUN	114.5	160.4	23.5	298.4	29.5	268.9
JUL	117.9	157.5	24.7	300.1	38.4	261.7
AUG	116.9	161.0	27.9	305.8	35.8	270.0
SEP	86.0	129.5	20.0	235.5	51.6	183.9
OCT	87.5	141.2	20.0	248.7	48.6	200.1
NOV	75.2	140.5	13.0	228.7	42.2	186.5
DEC	63.4	141.8	12.0	217.2	39.5	177.7

NOTE: The sum of the cotton, manufactured fiber and wool manufactures net-import balances minus the manufactured fiber net-export balance equals the total U.S net-import textile trade balance.

1988: A YEAR IN PERSPECTIVE

In 1988, U.S. mill consumption of manufactured fiber increased 2%. This increase in annual consumption compares to cotton mill consumption which fell by 9% and a decline of 7% in the wool mill consumption. (Graph 5)

The reason for the rise in manufactured fiber mill consumption was a rise in polyester consumption of 5% in 1988.

In comparing the total 1988 mill consumption for manufactured fiber, cotton and wool, cotton registered a decrease in market share over manufactured fiber. In 1988, the manufactured fiber share of the total mill consumption rose to 72%, while cotton fell to 27% and wool stood the same, at 1%. (Graph 2)

In 1988, exports of manufactured fiber, cotton and wool manufactures rose to 1,045 million pounds, 15% above the 1987 export level of 911 million pounds. The balance of trade in the manufactures improved in 1988, showing a net-import balance of 3,052 million pounds, 12% below the 1987 net-import balance of 3,488 million pounds. (Graph 3)

In 1988, domestic consumption of manufactured fiber totaled 10,063 million pounds, virtually unchanged from last year, cotton totaled 5,190 million pounds, a decrease of 10% and wool totaled 368 million pounds down 9%. (Graph 4).

Imports of manufactures fell by 7% in 1988 to 4,097 million pounds. Imports represented over 26% of domestic consumption in 1988. This compares to 27% in 1987, 26% in 1986 and 25% in 1985.

TABLE 7:
MILL CONSUMPTION BY FIBER
BILLION POUNDS

YEAR	RAYON	ACETATE[a]	NYLON[b]	POLYESTER	ACRYLIC[c]	OLEFIN	COTTON	WOOL	TOTAL
1978	0.6	0.3	2.5	3.7	0.6	0.7	3.0	0.1	11.5
1979	0.5	0.3	2.7	3.7	0.6	0.7	3.1	0.1	11.7
1980	0.5	0.3	2.3	3.5	0.6	0.7	3.1	0.1	11.1
1981	0.5	0.2	2.2	3.5	0.5	0.8	2.7	0.2	10.6
1982	0.3	0.2	1.9	3.0	0.5	0.8	2.5	0.1	9.3
1983	0.4	0.2	2.4	3.4	0.5	1.0	2.8	0.2	10.9
1984	0.4	0.2	2.4	3.2	0.5	1.0	2.7	0.2	10.6
1985	0.5[d]		2.5	3.1	0.5	1.3	2.8	0.1	10.8
1986	0.6[d]		2.5	3.2	0.6	1.5	3.3	0.2	11.9
1987	0.6[d]		2.7	3.5	0.5	1.6	3.7	0.2	12.8
1988	0.6[d]		2.7	3.6	0.5	1.6	3.4	0.2	12.6

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.

a. Includes triacetate. Cigarette tow is excluded.

b. Includes Aramid for all years except 1983-1988.

c. Includes modacrylic.

d. Rayon and acetate combined.

TABLE 8:
U.S. MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL
MILLION POUNDS & *PERCENT*

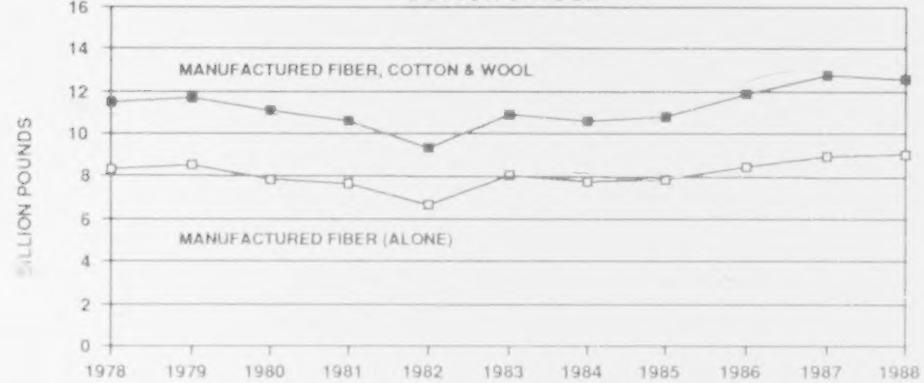
YEAR	MANUFACTURED FIBER	%[a]	%[b]	COTTON	%[a]	%[b]	WOOL	%[a]	%[b]	TOTAL	%[a]	%[b]
1978	8341.0	+3.0	72.4	3040.4	-4.1	26.4	141.6	+5.8	1.2	11523.0	+1.1	100.0
1979	8523.4	+2.2	72.7	3066.4	+0.9	26.2	134.4	-5.1	1.1	11724.2	+1.7	100.0
1980	7885.7	-7.5	71.1	3064.4	-0.1	27.7	137.8	+2.5	1.2	11087.9	-5.4	100.0
1981	7721.5	-2.1	72.8	2730.8	-10.9	25.8	152.7	+10.8	1.4	10605.0	-4.4	100.0
1982	6653.5	-13.8	71.8	2478.9	-9.2	26.8	129.5	-15.2	1.4	9261.9	-12.7	100.0
1983	7994.5	+20.2	73.0	2795.7	+12.8	25.5	162.5	+25.5	1.5	10952.7	+18.3	100.0
1984	7789.5	-2.6	73.3	2668.2	-4.6	25.2	163.2	+0.4	1.5	10620.9	-3.0	100.0
1985	8035.5	+3.2	73.3	2796.0	+4.8	25.5	134.7	-17.5	1.2	10966.2	+3.3	100.0
1986	8453.9	+5.2	70.9	3301.7	+18.1	27.7	164.5	+22.1	1.4	11920.1	+8.7	100.0
1987	8861.7	+4.8	69.4	3736.5	+13.2	29.3	167.6	+1.9	1.3	12765.8	+7.1	100.0
1988	9011.5	+1.7	71.7	3401.0	-9.0	27.1	156.1	-6.9	1.2	12568.6	-1.5	100.0

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.

a. Percent change from year to year.

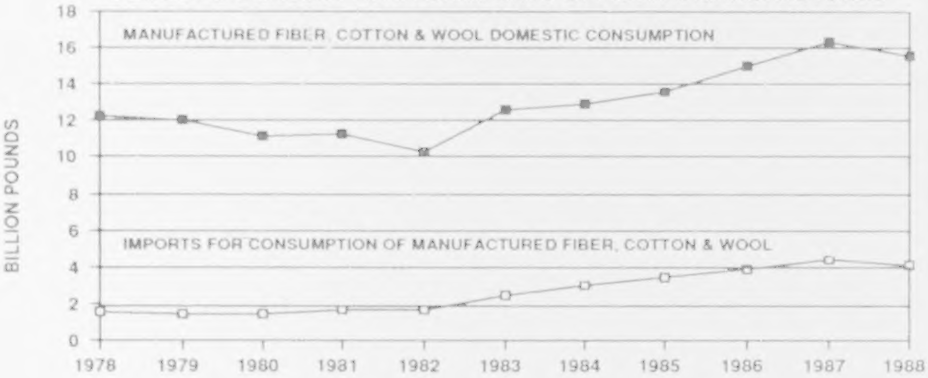
b. Percent of total fiber consumption.

GRAPH 5:
U.S. MILL CONSUMPTION OF MANUFACTURED FIBER,[a] COTTON & WOOL



a Glass Fiber no longer included

GRAPH 6:
MANUFACTURED FIBER, COTTON & WOOL DOMESTIC CONSUMPTION VS. IMPORTS OF FIBER & MANUFACTURES



GRAPH 7:
DOMESTIC CONSUMPTION DETAIL: MANUFACTURED FIBER, COTTON & WOOL

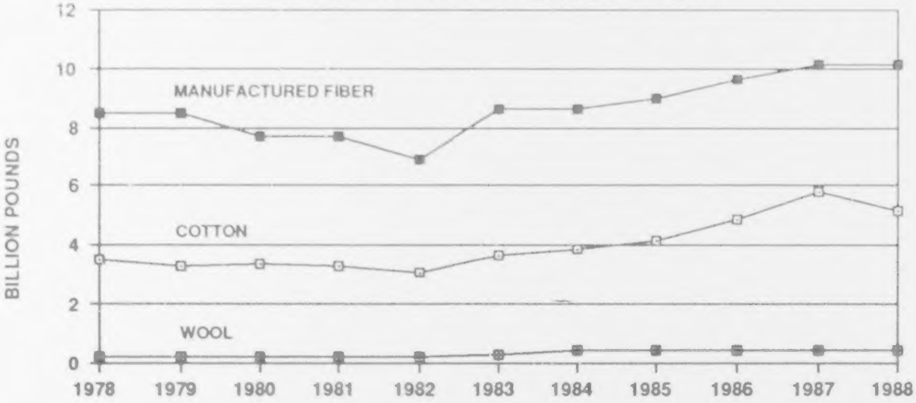


TABLE 9:
PRODUCERS' WASTE SHIPMENTS

MILLION FOUNDS

YEAR	RAYON	NONCELLULOSIC	YEAR	RAYON	NONCELLULOSIC
1963	40.2	42.0	1976	14.7	262.3
1964	49.0	45.9	1977	18.5	291.0
1965	51.5	55.2	1978	15.7	263.9
1966	44.6	66.5	1979	17.2	238.6
1967	36.1	92.8	1980	13.5	170.2
1968	44.3	122.3	1981	15.3	174.2
1969	39.4	140.3	1982	10.7	173.2
1970	34.5	136.3	1983	9.4	214.1
1971	36.3	157.8	1984	11.4	216.9
1972	38.5	202.7	1985	8.8	260.2
1973	36.8	274.8	1986	10.4	261.5
1974	29.9	246.4	1987	9.6	239.1
1975	13.2	228.7	1988	7.8	254.1

TABLE 10:
RAW COTTON CONSUMPTION

BALES [a]

MONTH	1980	1981	1982	1983	1984	1985	1986	1987	1988
JANUARY	604	435	378	404	469	389	595	546	568
FEBRUARY	506	446	398	430	447	405	499	562	590
MARCH	513	539	492	549	547	504	492	734	738
APRIL	622	433	409	431	430	406	620	573	556
MAY	496	441	392	441	442	426	503	586	551
JUNE	478	531	460	543	501	521	489	708	652
JULY	487	385	317	369	354	366	522	518	433
AUGUST	442	429	386	453	415	458	534	614	563
SEPTEMBER	456	517	474	560	494	562	523	753	676
OCTOBER	597	448	416	459	415	493	683	621	538
NOVEMBER	458	403	390	446	382	477	529	606	509
DECEMBER	475	400	425	468	408	480	568	610	554
TOTAL	6134	5407	4937	5553	5304	5487	6557	7431	6938

SOURCE: U.S. Department of Commerce, Bureau of the Census Report M22P

a. Running Bales of 500 lbs. net

TABLE 11:
RAW SILK DELIVERIES

BALES [a]

MONTH	1980	1981	1982	1983	1984	1985	1986	1987	1988
JANUARY	312	471	450	280	715	462	410	411	292
FEBRUARY	644	380	489	506	537	689	504	680	430
MARCH	422	471	662	390	455	344	197	572	559
APRIL	507	446	398	462	315	480	244	526	317
MAY	366	322	234	717	636	415	225	245	302
JUNE	285	529	369	377	655	NA	227	447	189
JULY	257	300	495	264	229	NA	555	253	203
AUGUST	332	259	403	474	672	NA	NA	327	613
SEPTEMBER	342	348	364	534	532	NA	NA	330	310
OCTOBER	365	414	226	529	562	NA	NA	470	126
NOVEMBER	265	487	514	587	391	NA	NA	239	367
DECEMBER	323	611	317	324	538	NA	NA	448	108
TOTAL	4420	5038	4921	5444	6237	4813	4272	4948	3816

SOURCE: International Silk Association.
NA Monthly data not available.

a. Average Bale weight 132 lbs.

TABLE 12:
MANUFACTURED FIBER PRODUCTION
ANNUALLY 1961 - 1988
MILLION POUNDS

YEAR	CELLULOSIC										NONCELLULOSIC FIBER c - h			TOTAL	NON-ADD TOTAL GLASS FIBER[i]
	RAYON YARN[a]			ACET YARN[b]	TOTAL YARN	STAPLE+TOW			TOTAL R+A					
	INDUS	TEXT	TOTAL			RAYON	ACET[b]	TOTAL		YARN	STAPLE	TOTAL		
1961	251.0	141.7	392.7	249.0	641.7	400.5	53.0	453.5	1095.2	497.2	253.7	750.9	1846.1	149.3
1962	272.0	148.4	420.4	305.7	726.1	500.0	46.0	546.0	1272.1	627.4	345.5	972.9	2245.0	190.3
1963	246.0	154.2	400.2	309.5	709.7	579.1	60.0	639.1	1348.8	712.8	443.2	1156.0	2504.8	191.9
1964	258.2	153.4	411.6	365.9	777.5	594.3	60.0	654.3	1431.8	847.6	559.1	1406.7	2838.5	239.5
1965	264.6	169.2	433.8	391.2	825.0	648.0	54.0	702.0	1527.0	997.7	782.4	1780.1	3307.1	282.3
1966	235.8	169.7	405.5	394.3	799.8	659.2	60.0	719.2	1519.0	1164.7	918.1	2082.8	3601.8	332.4
1967	161.2	147.9	309.1	425.6	734.7	603.4	50.0	653.4	1388.1	1215.4	1137.9	2353.3	3741.4	308.8
1968	202.4	162.9	365.3	439.9	805.2	739.1	50.0	789.1	1594.3	1662.1	1567.3	3229.4	4823.7	402.7
1969	168.6	150.6	319.2	455.2	774.7	758.8	43.0	801.8	1576.2	1766.9	1761.0	3527.9	5104.1	501.4
1970	146.4	121.2	267.6	463.2	730.8	607.4	35.0	642.4	1373.2	1793.4	1792.8	3586.2	4959.4	467.3
1971	180.4	123.0	303.4	449.3	752.7	611.7	26.5	638.2	1390.9	2187.9	2104.9	4292.8	5683.7	468.2
1972	146.7	105.0	251.7	401.4	653.1	713.2	28.0	741.2	1394.3	2773.3	2582.4	5355.7	6750.0	571.6
1973	121.7	76.4	198.1	437.2	635.3	696.7	25.0	721.7	1357.0	3339.6	2969.8	6309.4	7666.4	688.0
1974	112.9	58.9	171.8	361.6	533.4	645.4	20.0	665.4	1198.8	3443.0	2780.6	6223.6	7422.4	682.9
1975	46.1	18.7	64.8	301.3	366.1	370.9	12.0	382.9	749.0	3208.9	2676.8	5885.7	6634.7	546.5
1976	52.3	15.3	67.6	286.9	354.5	475.4	11.0	486.4	840.9	3306.4	3320.2	6626.6	7467.5	676.0
1977	55.3	15.4	70.7	282.0	352.7	527.0	8.0	535.0	887.7	3674.1	3653.8	7327.9	8215.6	786.7
1978	47.0	15.0	62.0	300.9	362.9	534.6	7.0	541.6	904.5	3830.3	3952.7	7783.0	8687.5	923.3
1979	41.7	15.1	56.8	316.6	373.4	549.4	7.0	556.4	929.8	4154.3	4282.3	8436.6	9366.4	1014.4
1980	32.2	15.0	47.2	308.5	355.7	443.3	7.0	450.3	806.0	3744.3	4148.2	7892.5	8698.5	867.3
1981	33.4	15.1	48.5	257.0	305.5	460.6	4.0	464.6	770.1	3814.8	4191.1	8005.9	8776.0	1041.1
1982	20.8	12.4	33.2	195.2	228.4	355.0	1.0	356.0	584.4	3057.4	3402.5	6459.9	7044.3	899.2
1983	25.0	11.2	36.2	227.6	263.8	374.8	1.4	376.2	640.0	3567.8	3970.6	7538.4	8178.4	1167.2
1984	28.8	12.1	40.9	198.2	239.1	389.2	0.4	389.6	628.7	3524.4	3947.3	7471.7	8100.4	1394.0
1985	NA	NA	NA	NA	204.6	352.7	0.5	353.2	557.8	3790.2	3773.3	7563.5	8121.3	NA
1986	NA	NA	NA	NA	214.8	403.7	0.5	404.2	619.0	3835.9	3991.8	7827.7	8446.7	NA
1987	NA	NA	NA	NA	191.1	413.8	0.5	414.3	605.4	4009.7	4306.2	8315.9	8921.3	NA
1988	NA	NA	NA	NA	213.9	399.8	0.5	400.3	614.2	4160.4	4345.6	8506.0	9120.2	NA

See footnotes on opposite page.

TABLE 13:
NONCELLULOSIC FIBER PRODUCTION DETAIL

MILLION POUNDS

	YARN+MONOFILAMENTS					STAPLE+TOW+FIBERFILL				
YEAR	NYLON[c]	OLEFIN[d]	ESTER[e]	OTHER[f]	TOTAL	NYLON[c]	ACRYL[g]	ESTER[e]	OTHER[h]	TOTAL
1961	441.7	18.9	36.6		497.2	34.2	140.1	77.4	2.0	253.7
1962	562.0	24.3	41.1		627.4	50.7	170.0	119.6	5.2	345.5
1963	630.0	30.3	52.5		712.8	61.5	209.7	166.6	5.4	443.2
1964	736.1	45.4	66.1		847.6	69.3	287.7	192.4	9.7	559.1
1965	846.1	65.6	86.0		997.7	93.7	368.4	305.2	15.1	782.4
1966	961.4	100.8	102.5		1164.7	118.7	352.9	409.3	37.2	918.1
1967	944.6	118.0	152.8		1215.4	124.6	397.7	568.1	47.5	1137.9
1968	1188.4	206.6	267.1		1662.1	162.1	521.0	827.3	56.9	1567.3
1969	1188.0	202.7	376.2		1766.9	223.2	533.0	938.8	66.0	1761.0
1970	1137.9	200.4	455.1		1793.4	216.8	491.9	1022.3	61.8	1792.8
1971	1237.9	261.8	688.2		2187.9	357.4	545.2	1142.5	59.8	2104.9
1972	1463.9	346.5	951.7	11.2	2773.3	510.6	625.9	1376.2	69.7	2582.4
1973	1582.8	423.8	1319.8	13.2	3339.6	591.9	742.1	1568.0	67.8	2969.8
1974	1560.0	463.1	1408.0	11.9	3443.0	563.7	631.2	1517.5	68.2	2780.6
1975	1295.4	442.9	1458.9	11.7	3208.9	561.9	524.6	1536.2	54.1	2676.8
1976	1372.5	515.7	1404.7	13.5	3306.4	702.7	621.0	1935.6	60.9	3320.2
1977	1512.4	554.1	1592.1	15.5	3674.1	813.7	708.8	2050.1	81.2	3653.8
1978	1654.0	596.6	1563.7	16.0	3830.3	895.9	725.7	2235.8	95.3	3952.7
1979	1781.6	639.1	1715.6	18.0	4154.3	938.8	761.1	2462.2	120.2	4282.3
1980	1631.1	632.2	1462.0	19.0	3744.3	726.6	779.2	2526.7	115.7	4148.2
1981	1580.7	642.9	1569.2	22.0	3814.8	751.8	690.8	2606.5	142.0	4191.1
1982	1241.6	585.2	1213.6	17.0	3057.4	685.0	624.1	1955.2	138.2	3402.5
1983	1492.2	716.1	1359.5	NA	3567.8	926.4	670.5	2184.1	189.6	3970.6
1984	1577.3	747.1	1200.0	NA	3524.4	834.8	670.8	2191.8	249.9	3947.3
1985	1514.8	954.5	1320.9	NA	3790.2	827.7	630.8	2020.1	294.7	3773.3
1986	1605.5	1057.7	1172.7	NA	3835.9	908.3	615.9	2132.3	335.3	3991.8
1987	1697.2	1133.8	1178.7	NA	4009.7	992.4	591.5	2361.8	360.5	4306.2
1988	1727.5	1204.2	1228.7	NA	4160.4	941.7	588.1	2451.8	364.0	4345.6

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.

NA No longer available.

a. Includes industrial (high tenacity) yarn and textile (regular+intermediate tenacity) yarn+monofilaments. Beginning January 1965, the high tenacity rayon yarn of 900 denier & finer is tabulated with regular tenacity yarn.

b. Includes diacetate and triacetate. The acetate staple+tow data do not include the quantities produced for cigarette filtration purposes.

c. Excludes aramid in 1983-1988.

d. Includes polypropylene yarn+monofilaments+spunbonded+film fiber and polyethylene monofilaments+film fiber.

e. Ester means polyester.

f. Other yarn is chiefly saran and spandex in recent years.

g. Includes modacrylic.

h. Other staple+tow includes only olefin and vinyon for recent years. Excludes Vinyon in 1987 & 1988. Earlier years' data are on pages 8 & 9 of the January 1962 ORGANON Base Book issue and page 4 of the January-February 1971 issue.

i. Includes both textile and non-textile types of glass.

TABLE 14:
CELLULOSIC MANUFACTURED FIBER DISTRIBUTION
ANNUALLY 1961 - 1988
MILLION POUNDS

YEAR	YARN+MONOFILAMENTS							STAPLE+TOW							TOTAL GLASS FIBER'				
	PRODUCERS' SHIPMENTS					IM-PORTS	MILL CONS	PRODUCERS' SHIPMENTS					IM-PORTS	MILL CONS	PRODUCERS' SHIPMENTS			IM-PORTS	MILL CONS
	TO DOM. CONSUMERS [a] [b]			EX-PORTS	TOTAL			TO DOM. CONSUMERS			EX-PORTS	TOTAL			DO-MESTIC	EX-PORTS	TOTAL		
	RAYON	ACET	TOTAL					RAYON	ACET[b]	TOTAL									
1961	385.2	240.8	626.0	33.1	659.1	1.8	627.8	411.8	51.4	463.2	2.8	466.0	37.0	500.2	147.2	6.0	153.2	--	147.2
1962	384.6	281.7	666.3	44.9	711.2	2.6	668.9	499.2	44.4	543.6	3.8	547.4	50.9	594.5	177.5	6.6	184.1	--	177.5
1963	380.7	305.0	685.7	39.7	725.4	1.7	687.4	578.8	57.5	636.3	4.9	641.2	116.5	752.8	182.0	8.5	190.5	--	182.0
1964	399.6	363.8	763.4	28.5	791.9	5.2	768.6	575.7	57.5	633.2	7.7	640.9	114.5	747.7	220.6	11.8	232.4	--	220.6
1965	409.3	366.4	775.7	22.1	797.8	6.8	782.5	636.3	54.4	690.7	8.4	699.1	77.2	767.9	268.2	18.7	286.9	--	268.2
1966	389.6	387.5	777.1	15.2	792.3	3.7	780.8	636.5	59.0	695.5	9.4	704.9	114.8	810.3	314.2	7.9	322.1	1.1	315.3
1967	311.1	421.0	732.1	18.2	750.3	7.7	739.8	625.9	49.5	675.4	4.3	679.7	85.0	760.4	302.7	8.2	310.9	1.0	303.7
1968	353.5	426.4	779.9	17.6	797.5	14.6	794.5	720.0	48.5	768.5	5.4	773.9	125.0	893.5	383.7	12.1	395.8	0.1	383.8
1969	294.7	444.7	739.4	16.0	755.4	4.1	743.5	737.9	42.3	780.2	5.0	785.2	91.2	871.4	460.4	17.7	478.1	0.1	460.5
1970	251.1	444.8	695.9	38.3	734.2	3.7	699.6	599.9	34.3	634.2	7.8	642.0	80.6	714.8	404.2	29.9	434.1	0.7	404.9
1971	297.0	432.3	729.3	33.2	762.5	5.2	734.5	643.6	26.2	669.8	3.7	673.5	81.3	751.1	464.9	17.4	482.3	1.8	466.7
1972	246.9	385.9	632.8	23.9	656.7	10.8	643.6	690.7	27.7	718.4	2.0	720.4	51.3	769.7	559.8	17.5	577.3	9.4	569.2
1973	197.6	392.3	589.9	60.7	650.6	18.1	608.0	709.5	25.0	734.5	14.7	749.2	47.4	781.9	663.0	36.5	699.5	13.0	676.0
1974	153.1	320.3	473.4	48.8	522.2	9.2	482.6	569.5	19.7	589.2	36.0	625.2	38.7	627.9	619.3	38.0	657.3	11.5	630.8
1975	74.9	293.7	368.6	32.9	401.5	9.2	377.8	373.4	12.0	385.4	20.2	405.6	37.9	423.3	524.6	18.3	542.9	8.9	533.5
1976	65.1	249.4	314.5	40.3	354.8	25.1	339.6	461.0	11.0	472.0	35.6	507.6	43.2	515.2	663.3	35.0	698.3	14.3	677.6
1977	68.1	259.4	327.5	25.2	352.7	23.5	351.0	444.9	8.0	452.9	62.3	515.2	57.8	510.7	769.3	28.9	798.2	22.0	791.3
1978	63.0	274.6	337.6	27.6	365.2	25.7	363.3	459.2	7.0	466.2	96.5	562.7	41.1	507.3	864.9	27.7	892.6	21.8	886.7
1979	55.0	288.4	343.4	31.8	375.2	13.3	356.7	442.4	7.0	449.4	100.1	549.5	16.5	465.9	912.2	48.3	960.5	10.4	922.6
1980	47.5	269.2	316.7	32.7	349.4	8.3	325.0	390.7	7.0	397.7	61.0	458.7	10.3	408.0	867.1	48.6	915.7	7.3	874.4
1981	46.6	226.3	272.9	34.8	307.7	10.7	283.6	396.9	4.0	400.9	59.8	460.7	16.8	417.7	963.8	35.2	999.0	18.2	982.0
1982	30.1	169.0	199.1	29.8	228.9	7.0	206.1	293.7	1.0	294.7	66.5	361.2	13.4	308.1	861.5	42.9	904.4	14.1	875.6
1983	35.5	197.6	233.1	28.2	261.3	8.7	241.8	333.5	1.4	334.9	43.9	378.8	13.6	348.5	1146.1	37.4	1183.5	20.0	1166.1
1984	38.2	180.1	218.3	18.2	236.5	10.0	228.3	331.9	0.4	332.3	52.1	384.4	17.0	349.3	1250.7	58.0	1308.7	23.1	1273.8
1985	NA	NA	187.1	23.0	210.1	13.9	201.0	323.7	0.5	324.2	35.0	359.2	12.3	336.5	NA	NA	1259.6	34.7	NA
1986	NA	NA	192.1	20.2	212.3	17.0	209.1	373.0	0.5	373.5	30.8	404.3	17.4	390.9	NA	NA	1339.3	23.7	NA
1987	NA	NA	166.8	24.9	191.7	12.8	179.6	383.1	0.5	383.6	32.4	416.0	13.8	397.4	NA	NA	1513.1	29.4	NA
1988	NA	NA	182.6	34.1	216.7	17.6	200.2	386.0	0.5	386.5	20.5	407.0	20.4	406.9	NA	NA	1587.6	26.2	NA

See footnotes on opposite page.

TABLE 15:
NONCELLULOSIC MANUFACTURED FIBER DISTRIBUTION
ANNUALLY 1961 - 1988
MILLION POUNDS

	YARN+MONOFILAMENTS									STAPLE+TOW+FIBERFILL								
	PRODUCERS' SHIPMENTS									PRODUCERS' SHIPMENTS								
	TO DOMESTIC CONSUMERS									TO DOMESTIC CONSUMERS								
YEAR	NYLON [c]	OLEFIN [d]	ESTER [e]	OTH [f]	TOTAL	EX-PORTS	TOTAL	IM-PORTS	MILL CONS	NYLON [c]	ACRYL [g]	ESTER [e]	OTH [h]	TOTAL	EX-PORTS	TOTAL	IM-PORTS	MILL CONS
1961	419.0	17.5	36.1		472.6	25.2	497.8	4.7	477.3	36.0	123.8	70.9	3.0	233.7	22.3	256.0	3.2	236.9
1962	503.1	22.5	38.1		563.7	41.1	604.8	7.0	570.7	47.5	147.1	115.3	3.6	313.5	20.3	333.8	13.9	327.4
1963	570.9	29.1	48.9		648.9	43.2	692.1	6.3	655.2	54.3	201.5	150.7	5.0	411.5	18.3	429.8	8.8	420.3
1964	685.9	44.2	63.6		793.7	62.8	856.5	3.7	797.4	68.3	263.2	177.5	8.6	517.6	34.1	551.7	19.2	536.8
1965	781.9	60.1	77.2		919.2	46.1	965.3	8.5	927.7	85.1	324.5	290.4	13.5	713.5	32.3	745.8	52.1	765.6
1966	880.0	94.6	81.4	13.4	1069.4	54.4	1123.8	12.5	1081.9	108.8	328.0	372.1	33.1	842.0	39.7	881.7	61.0	903.0
1967	907.4	116.1	133.0	11.8	1168.3	58.6	1226.9	16.4	1184.7	120.6	371.2	537.2	40.5	1069.5	60.3	1129.8	63.2	1132.7
1968	1085.8	199.0	226.7	10.5	1522.0	84.5	1606.5	33.7	1555.7	157.2	467.1	756.1	52.4	1432.8	72.2	1505.0	89.8	1522.6
1969	1063.4	188.6	353.6	10.9	1616.5	84.9	1701.4	32.5	1649.0	202.7	473.4	883.3	61.7	1621.1	100.3	1721.4	67.5	1688.6
1970	1052.6	187.0	433.0	10.0	1682.6	82.3	1764.9	120.8	1803.4	201.2	430.7	992.9	57.3	1682.1	108.6	1790.7	57.7	1739.8
1971	1206.7	246.5	636.8	10.1	2100.1	78.5	2178.6	234.4	2334.5	330.1	463.7	1111.4	58.9	1964.1	130.5	2094.6	93.3	2057.4
1972	1430.6	312.4	935.4	11.4	2689.8	87.4	2777.2	224.5	2914.3	476.6	536.0	1286.9	63.6	2363.1	174.1	2537.2	103.7	2466.8
1973	1544.7	395.4	1320.5	13.1	3273.7	127.4	3401.1	140.1	3413.8	586.8	662.0	1530.3	69.3	2848.4	233.0	3081.4	112.8	2961.2
1974	1408.8	426.3	1295.2	12.0	3142.3	140.6	3282.9	92.1	3234.4	487.8	514.9	1388.1	59.7	2450.5	195.3	2645.8	73.2	2523.7
1975	1289.7	436.1	1477.0	12.0	3214.8	104.5	3319.3	53.8	3268.6	557.9	467.3	1473.6	54.7	2553.5	209.9	2763.4	55.2	2608.7
1976	1279.3	482.0	1373.9	12.0	3147.2	138.5	3285.7	64.0	3211.2	665.4	517.3	1777.2	58.6	3018.5	247.4	3265.9	67.3	3085.8
1977	1396.2	539.6	1510.6	15.0	3461.4	159.0	3620.4	92.5	3553.9	791.7	619.8	1880.3	81.3	3373.1	270.0	3643.1	52.9	3426.0
1978	1539.1	579.7	1507.6	15.5	3641.9	197.5	3839.4	52.2	3694.1	876.4	571.6	1967.5	90.0	3505.5	411.4	3916.9	60.5	3566.0
1979	1631.3	624.2	1525.1	17.0	3797.6	319.3	4116.9	20.0	3817.6	913.2	546.6	2134.4	119.3	3713.5	593.2	4306.7	39.3	3752.8
1980	1538.9	611.7	1363.4	18.0	3532.0	301.8	3833.8	19.6	3551.6	711.2	585.3	2071.0	115.0	3482.5	689.8	4172.3	35.6	3518.1
1981	1404.3	628.3	1430.0	20.5	3483.1	282.5	3765.6	18.9	3502.0	696.4	494.1	2005.4	132.0	3327.9	820.4	4148.3	60.5	3388.4
1982	1165.6	577.0	1134.8	16.5	2893.9	220.2	3114.1	23.8	2917.7	673.3	457.9	1767.5	138.9	3037.6	369.9	3407.5	51.2	3088.8
1983	1392.4	698.6	1294.4	NA	3385.4	187.3	3572.7	48.3	3433.7	897.1	492.2	2099.2	183.4	3671.9	281.5	3953.4	101.4	3773.3
1984	1438.1	725.6	1144.9	NA	3308.6	189.0	3497.6	90.0	3398.6	814.4	446.7	1992.2	240.9	3494.2	442.4	3936.6	131.1	3625.3
1985	1417.4	937.6	1204.2	NA	3559.2	240.2	3799.4	104.6	3663.8	830.3	458.7	1872.7	279.7	3441.4	372.8	3814.2	159.4	3600.8
1986	1479.6	1049.2	1092.4	NA	3621.2	200.6	3821.8	126.1	3747.3	894.9	531.2	1998.6	312.7	3737.4	239.8	3977.2	182.8	3920.2
1987	1554.3	1135.5	1113.4	NA	3803.2	214.7	4017.9	123.9	3927.1	966.0	479.3	2201.0	341.1	3987.4	325.6	4313.0	189.0	4176.4
1988	1572.4	1184.1	1157.4	NA	3913.9	260.5	4174.4	116.3	4030.2	944.9	421.1	2311.8	344.2	4022.0	344.8	4366.8	196.2	4218.2

NA No longer available.

Mill consumption (CONS) means the sum of fiber producers' domestic shipments and fiber imports for consumption.

Imports for consumption (IMPORTS): yarn+monofil includes yarn singles, monofilaments & strips; staple+tow includes grouped filaments. Not included here are plied, spun & handwork yarns, sewing thread, sliver, tops & roving and waste.

a - i. See these lettered footnotes on page 49.

Noncellulosic data from 1940 are on page 5 of the January - February 1971 issue. Rayon+acetate data from 1911 are on page 9 of the January 1962 *Organon* Base Book.

TABLE 16:
U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS
MILLION POUNDS & *PERCENT*

	MANUFACTURED FIBER MILL CONSUMPTION=PRODUCERS' SHIPMENTS (DOM) PLUS IMPORTS FOR CONSUMPTION (IMP)																					
	CELLULOSIC FIBER											NONCELLULOSIC FIBER										
	YARN+MONOFIL			STAPLE+TOW			WASTE					YARN+MONOFIL			STAPLE+TOW			WASTE				
YEAR	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET	TOTAL	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
1974	473.4	9.2	482.6	589.2	38.7	627.9	29.9	0.2	33.0	-2.9	1107.6	3142.3	92.1	3234.4	2450.5	73.2	2523.7	246.4	46.3	91.2	201.5	5959.6
1975	368.6	9.2	377.8	385.4	37.9	423.3	13.2	0.1	12.4	0.9	802.0	3214.8	53.8	3268.6	2553.5	55.2	2608.7	228.7	25.0	50.0	203.7	6081.0
1976	314.5	25.1	339.6	472.0	43.2	515.2	14.7	0.4	14.6	0.5	855.3	3147.2	64.0	3211.2	3018.5	67.3	3085.8	262.3	30.5	70.2	222.6	6519.6
1977	327.5	23.5	351.0	452.9	57.8	510.7	18.5	0.6	12.6	6.5	868.2	3461.4	92.5	3553.9	3373.1	52.9	3426.0	291.0	23.2	66.1	248.1	7228.0
1978	337.6	25.7	363.3	466.2	41.1	507.3	15.7	0.4	7.0	9.1	879.7	3641.9	52.2	3694.1	3505.5	60.5	3566.0	263.9	26.0	88.7	201.2	7461.3
1979	343.4	13.3	356.7	449.4	16.5	465.9	17.2	0.8	9.6	8.4	831.0	3797.6	20.0	3817.6	3713.5	39.3	3752.8	238.6	21.1	137.7	122.0	7692.4
1980	316.7	8.3	325.0	397.7	10.3	408.0	13.5	0.3	6.1	7.7	740.7	3532.0	19.6	3551.6	3482.5	35.6	3518.1	170.2	21.5	116.4	75.3	7145.0
1981	272.9	10.7	283.6	400.9	16.8	417.7	15.3	0.5	2.8	13.0	714.3	3483.1	18.9	3502.0	3327.9	60.5	3388.4	174.2	49.9	107.3	116.8	7007.2
1982	199.1	7.0	206.1	294.7	13.4	308.1	10.7	0.4	3.2	7.9	522.1	2893.9	23.8	2917.7	3037.6	51.2	3088.8	173.2	37.8	86.1	124.9	6131.4
1983	233.1	8.7	241.8	334.9	13.6	348.5	9.4	0.3	1.4	8.3	598.6	3385.4	48.3	3433.7	3671.9	101.4	3773.3	214.1	46.1	71.3	188.9	7395.9
1984	218.3	10.0	228.3	332.3	17.0	349.3	11.4	0.5	1.6	10.3	587.9	3308.6	90.0	3398.6	3494.2	131.1	3625.3	216.9	50.5	89.7	177.7	7201.6
1985	187.1	13.9	201.0	324.2	12.3	336.5	8.8	0.5	1.2	8.1	545.6	3559.2	104.6	3663.8	3441.4	159.4	3600.8	260.2	40.7	75.6	225.3	7489.9
1986	192.1	17.0	209.1	373.5	17.4	390.9	10.4	0.1	2.2	8.3	608.3	3621.2	126.1	3747.3	3737.4	182.8	3920.2	261.5	40.3	123.7	178.1	7845.6
1987	166.8	12.8	179.6	383.6	13.8	397.4	9.6	0.1	1.1	8.6	585.6	3803.2	123.9	3927.1	3987.4	189.0	4176.4	239.1	47.0	113.5	172.6	8276.1
1988	182.6	17.6	200.2	386.5	20.4	406.9	7.8	+	2.0	5.8	612.9	3913.9	116.3	4030.2	4022.0	196.2	4218.2	254.1	40.5	144.4	150.2	8398.6

Continued on opposite page

TABLE 16:

U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS *(CONTINUED)*

MILLION POUNDS & *PERCENT*

	MILL CONSUMPTION OF 4 FIBERS										DOMESTIC CONSUMPTION OF 3 FIBERS (CONS)=MILL CONSUMPTION+IMPORTS (IMP) LESS EXPORTS (EXP) OF SEMIMANUFACTURED & MANUFACTURED PRODUCTS											
	MANUFACTURED FIBER		COTTON		WOOL		SILK		TOTAL		MANUFAC. FIBER			COTTON			WOOL			TOTAL		
YEAR	LB	%	LB	%	LB	%	LB	%	LB	%	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS
	(23)		(24)		(25)		(26)		(27)		(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	([illegible]7)	(38)	(39)
1974	7067.2	*67.4*	3306.1	*31.5*	116.5	*1.1*	2.6	--	10492.4	*100.0*	371.3	390.7	7047.8	502.7	392.5	3416.3	53.3	23.0	146.8	927.3	806.2	**10613.5**
1975	6883.0	*68.3*	3068.7	*30.4*	132.0	*1.3*	1.0	--	10084.7	*100.0*	400.4	322.4	6961.0	501.3	353.7	3216.3	48.6	19.2	161.4	950.3	695.3	**10339.7**
1976	7374.9	*67.6*	3389.0	*31.1*	145.9	*1.3*	2.8	--	10912.6	*100.0*	479.5	352.2	7502.2	708.6	413.2	3684.4	66.7	13.9	198.7	1254.8	779.3	**11388.1**
1977	8096.2	*71.0*	3169.8	*27.8*	133.9	*1.2*	1.6	--	11401.5	*100.0*	530.7	367.7	8259.2	669.4	369.5	3469.7	85.9	11.5	208.3	1286.0	748.7	**11938.8**
1978	8341.0	*72.4*	3040.4	*26.4*	141.6	*1.2*	2.0	--	11525.0	*100.0*	642.6	441.7	8541.9	845.4	355.7	3530.1	92.2	11.6	222.2	1580.2	809.0	**12296.2**
1979	8523.4	*72.7*	3066.4	*26.2*	134.4	*1.1*	1.5	--	11725.7	*100.0*	525.0	596.6	8451.8	746.1	478.0	3334.5	80.6	14.0	201.0	1351.7	1088.6	**11988.8**
1980	7885.7	*71.1*	3064.4	*27.7*	137.8	*1.2*	1.0	--	11088.9	*100.0*	540.6	771.5	7654.8	810.9	523.1	3352.2	85.1	23.8	199.1	1436.6	1318.4	**11207.1**
1981	7721.5	*72.8*	2730.8	*25.8*	152.7	*1.4*	2.0	--	10607.0	*100.0*	639.1	637.7	7722.9	961.9	367.3	3325.4	93.1	11.8	234.0	1694.1	1016.8	**11284.3**
1982	6653.5	*71.8*	2478.9	*26.8*	129.5	*1.4*	2.0	--	9263.9	*100.0*	697.9	438.5	6912.9	897.2	253.4	3122.7	100.1	10.8	218.8	1695.2	702.7	**10256.4**
1983	7994.5	*73.0*	2795.7	*25.5*	162.5	*1.5*	1.6	--	10954.3	*100.0*	1069.5	460.7	8603.3	1135.5	219.6	3711.6	149.8	11.6	300.7	2354.8	691.9	**12617.2**
1984	7789.5	*73.3*	2668.2	*25.2*	163.2	*1.5*	1.4	--	10622.3	*100.0*	1342.6	487.9	8644.2	1465.6	206.1	3927.7	210.2	12.0	361.4	3018.4	706.0	**12934.7**
1985	8035.5	*73.3*	2796.0	*25.5*	134.7	*1.2*	1.5	--	10967.7	*100.0*	1491.0	499.1	9027.4	1629.2	213.2	4212.0	264.8	17.8	381.7	3385.0	730.1	**13622.6**
1986	8453.9	*70.9*	3301.7	*27.7*	164.5	*1.4*	1.0	--	11921.1	*100.0*	1703.0	519.3	9637.6	1910.5	274.8	4937.4	275.6	16.0	424.1	3889.1	810.1	**15000.1**
1987	8861.7	*69.4*	3736.5	*29.3*	167.6	*1.3*	1.0	--	12766.8	*100.0*	1805.4	591.9	10075.2	2335.7	298.0	5774.2	258.3	21.3	404.6	4399.4	911.2	**16255.0**
1988	9011.5	*71.7*	3401.0	27.1	156.1	*1.2*	1.0	--	12569.6	*100.0*	1735.7	684.6	10062.6	2118.8	330.2	5189.6	242.4	30.6	367.9	4096.9	1045.4	**15621.1**

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.
This table, expanded to include the New MFA Fibers, will be reproduced in a forthcoming issue.

SOURCES OF DATA, ARRANGED BY COLUMN NUMBER ( ):

All Census import and export commodity numbers ~~are~~ as of January 1987.

1 & 4: This issue on page 50.
12 & 15: This issue on page 51.
7 & 18: This issue on page 47.
2: Import Classes 309.0310, .0610, .2000, 310.0106, .0130, .0206, .0230 & .0610.
5: Import Classes 309.3010, .3310, .4320 & .4325.
8: Import Classes 309.6615 & .7510.
9: Export Class 309.7400.
13: Import Classes 309.0200, .0330, .0340, .0365, .0500, .0630, .0640, .0665, .2100, .2500, 310.0107, .0108, .0110, .0114, .0149, .0150, .0170, .0207, .0208, .0210, .0214, .0249, .0250, .0270, .0550, .0630 & .0650.
16: Import Classes 309.3030, .3040, .3050, .3065, .3200, .3340, .3350, .3365, .4331, .4336, .4341, .4351, .4361, .4366, .4371 & .4390.
19: Import Classes 309.6625, .6630, .6645, .6660, .7000 & .7525 - .7555.
20: Export Classes 309.7620, .7630, .7640 & .7660.
24: U.S. Census Bureau Report M22P.
25: U.S. Census Bureau Report M22D.
26: Import Classes 308.0200 - .2000.
28, 29, 31, 32, 34 & 35: Cotton and Wool Outlook & Situation (U.S. Department of Agriculture).

CERTAIN TOTALS IN THE TABLES:

(Obvious totals such as Columns 1+2=3, 4+5=6, etc. are not described here.)

10: Columns 7+8-9
21: Columns 18+19-20
23: Columns 11+22
30: Columns 23+28-29
33: Columns 24+31-32
36: Columns 25+34-35

TABLE 17:
RAW FIBER EQUIVALENT OF IMPORTS & EXPORTS OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES
MILLION POUNDS

COMMODITY	MANUFACTURED FIBER							COTTON							WOOL						
	ANNUAL AVERAGE							ANNUAL AVERAGE							ANNUAL AVERAGE						
	1974 - 1978	1979 - 1983	1984	1985	1986	1987	1988	1974 - 1978	1979 - 1983	1984	1985	1986	1987	1988	1974 - 1978	1979 - 1983	1984	1985	1986	1987	1988
IMPORTS																					
SEMIMANUFACTURED PRODUCTS																					
YARN, THREAD, ETC[a]	29.4	39.8	71.0	74.7	96.3	91.9	67.6	19.1	25.3	54.6	56.3	105.9	134.5	95.5	5.8	5.7	16.3	14.1	13.7	14.6	13.1
CLOTH[b]	86.5	102.5	170.4	129.1	245.0	211.7	205.7	272.7	291.6	450.8	421.2	532.9	649.9	466.4	14.8	24.9	39.0	36.4	25.9	29.5	29.9
SUBTOTAL	**115.9**	**142.3**	**241.4**	**203.8**	**341.3**	**303.6**	**273.3**	**291.8**	**316.9**	**505.4**	**477.5**	**638.8**	**784.4**	**561.9**	**20.6**	**30.6**	**55.3**	**50.5**	**39.6**	**44.1**	**43.0**
MANUFACTURED PRODUCTS																					
WEARING APPAREL[c]	335.6	447.6	688.9	798.1	929.4	1033.6	991.7	292.6	505.5	759.5	895.5	1016.0	1265.6	1254.4	33.8	45.4	80.8	137.0	155.6	158.9	144.3
INDUSTRIAL[d]	2.0	0.2	0.4	0.9	2.7	5.6	11.6	6.0	9.8	37.6	32.4	46.4	53.2	51.4	NOMINAL QUANTITIES INCLUDED IN ALL OTHER						
HOME FURNISHINGS[e])	31.4	68.2	411.3	394.2	429.2	462.6	459.1	38.8	58.9	138.9	169.7	182.9	205.2	218.7	13.8	20.9	52.1	60.8	62.9	53.1	41.2
ALL OTHER[f]								16.3	16.3	23.4	38.6	26.4	27.3	32.4	1.1	1.3	1.2	0.6	2.4	2.2	13.9
SUBTOTAL	**369.0**	**516.0**	**1100.6**	**1193.2**	**1361.3**	**1501.8**	**1462.4**	**353.7**	**590.5**	**959.4**	**1136.2**	**1271.7**	**1551.3**	**1556.9**	**48.7**	**67.6**	**134.1**	**198.4**	**220.9**	**214.2**	**199.4**
TOTAL IMPORTS	**484.9**	**658.3**	**1342.0**	**1397.0**	**1702.6**	**1805.4**	**1735.7**	**645.5**	**907.4**	**1464.8**	**1613.7**	**1910.5**	**2335.7**	**2118.8**	**69.3**	**98.2**	**189.4**	**248.9**	**260.5**	**258.3**	**242.4**
EXPORTS																					
SEMIMANUFACTURED PRODUCTS																					
YARN, THREAD, ETC[a]	37.9	49.4	38.5	50.9	47.9	53.9	66.5	21.7	36.1	20.0	25.8	16.6	19.6	27.2	7.4	4.3	2.7	9.3	6.3	12.7	16.5
CLOTH[b]	169.5	227.1	152.6	158.6	184.2	209.9	246.1	217.7	150.2	64.5	82.2	126.4	107.3	96.6	1.1	1.5	1.4	1.6	2.3	2.2	2.1
SUBTOTAL	**207.4**	**276.5**	**191.1**	**209.5**	**232.1**	**263.8**	**312.6**	**239.4**	**186.3**	**84.5**	**108.0**	**143.0**	**126.9**	**123.8**	**8.5**	**5.8**	**4.1**	**10.9**	**8.6**	**14.9**	**18.6**
MANUFACTURED PRODUCTS																					
WEARING APPAREL	37.6	90.9	79.4	65.2	74.9	82.5	88.2	52.8	109.3	68.2	55.4	73.9	108.4	123.1	3.1	6.1	2.7	3.9	3.8	4.2	6.1
INDUSTRIAL[d]	33.8	60.3	31.3	30.2	46.3	53.8	46.5	22.8	17.6	14.4	16.5	21.0	21.7	27.4	NOMINAL QUANTITIES INCLUDED IN ALL OTHER						
HOME FURNISHINGS[e]	49.1	67.6	102.9	81.9	86.8	101.0	138.0	36.4	36.8	36.9	30.4	36.4	40.1	54.5	2.3	2.1	6.5	3.3	0.2	0.2	0.3
ALL OTHER[g]	47.1	85.6	83.3	73.5	79.1	90.8	99.3	25.5	18.2	0.6	0.4	0.6	0.9	1.4	1.9	1.8	1.8	1.2	1.6	2.0	5.6
SUBTOTAL	**167.6**	**304.4**	**296.9**	**250.8**	**287.1**	**328.1**	**372.0**	**137.5**	**181.9**	**120.1**	**102.7**	**131.9**	**171.1**	**206.4**	**7.3**	**10.1**	**11.0**	**8.4**	**5.6**	**6.4**	**12.0**
TOTAL EXPORTS	**375.0**	**580.9**	**488.0**	**460.3**	**519.2**	**591.9**	**684.6**	**376.9**	**368.2**	**204.6**	**210.7**	**274.9**	**298.0**	**330.2**	**15.8**	**15.9**	**15.1**	**19.3**	**14.2**	**21.3**	**30.6**
NET EXPORTS (+) OR NET IMPORTS (-)	**-109.9**	**-77.4**	**-854.0**	**-936.7**	**-1183.4**	**-1213.5**	**-1051.1**	**-268.6**	**-539.2**	**-1260.2**	**-1403.0**	**-1635.6**	**-2037.7**	**-1788.6**	**-53.5**	**-82.3**	**-174.3**	**-229.6**	**-246.3**	**-237.0**	**-211.8**

SOURCE: U.S. Department of Agriculture, *Cotton and Wool Outlook & Situation*.

a. Includes sliver, tops, roving, plied (textured and other), thrown and spun yarn, sewing thread and handwork yarns. Manufactured fiber yarn singles (textured and other) are not included here; rather they are included in Column 13 page 52 of this issue.

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980-1988 only; the corresponding quantities for each year are, respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1 & 73.4.

b. Includes broad & narrow woven fabrics and knit cloth, except that cotton narrow fabrics and wool knit fabrics are included in All Other.

c. Includes lace & lace articles, veils & veilings and nets & nettings.

d. The manufactured fiber data are tire cord & tire cord fabric.

e. Includes carpets & rugs. Lace window curtains are in All Other.

f. Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc. Wool includes knit fabric in the piece, but not lace & lace articles, which are in Wearing Apparel. For 1983-1986, manufactured fiber and cotton include imports of soft-sided luggage. For those years the quantities were respectively, 180.5, 228.0, 157.4 and 169.3 for manufactured fiber and 14.1, 18.7, 8.2 & 30.1 for cotton.

g. Includes such products as lace & lace articles, polishing & dustcloths, braids, tassels, etc. Cotton also includes narrow fabric and wool includes knit fabrics.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

TABLE 18:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

	1988 REVISED												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
	MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]													
CELLULOSIC														
YARN	15.9	16.1	18.1	19.4	18.3	17.5	19.1	18.6	18.1	18.6	17.0	20.0	216.7	191.7
RAYON STAPLE	32.6	35.9	38.5	35.5	36.4	36.2	29.1	36.1	34.3	34.8	29.1	28.0	406.5	415.5
TOTAL CELLULOSIC	**48.5**	**52.0**	**56.6**	**54.9**	**54.7**	**53.7**	**48.2**	**54.7**	**52.4**	**53.4**	**46.1**	**48.0**	**623.2**	**607.2**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[e]	27.5	32.1	34.8	32.2	30.8	32.4	32.4	28.8	29.2	29.9	33.7	31.4	375.2	373.4
- CARPET	72.6	80.7	84.6	80.7	81.9	79.3	73.7	89.4	87.1	87.8	82.2	76.2	976.2	941.6
- TEXTILE[g]	30.0	31.2	33.9	31.7	32.0	32.5	27.7	32.3	32.0	32.9	34.0	36.8	387.0	378.8
POLYESTER - INDUSTRIAL[e]	26.5	29.3	30.7	31.3	29.4	32.3	29.3	29.0	30.6	31.4	28.7	31.7	360.2	338.8
- TEXTILE[g]	62.9	68.4	67.7	74.3	71.9	70.5	70.2	66.7	69.1	77.7	79.0	93.5	871.9	841.5
OLEFIN[f]	97.2	101.4	102.4	102.7	102.9	102.8	89.0	99.6	105.1	104.7	100.7	95.4	1203.9	1143.8
TOTAL YARN	**316.7**	**343.1**	**354.1**	**352.9**	**348.9**	**349.8**	**322.3**	**345.8**	**353.1**	**364.4**	**358.3**	**365.0**	**4174.4**	**4017.9**
STAPLE+TOW+FIBERFILL														
NYLON	78.4	81.7	83.6	71.0	77.9	79.3	75.0	90.2	81.3	89.6	77.9	78.0	963.9	985.5
ACRYLIC+MODACRYLIC	48.5	52.8	55.4	45.4	45.6	47.4	42.1	53.2	51.8	48.8	50.1	49.1	590.2	594.4
POLYESTER	187.7	197.7	200.7	212.1	195.8	195.7	190.9	195.6	202.9	228.3	209.0	232.5	2448.9	2369.2
OLEFIN+VINYON[d]	29.1	29.6	30.7	29.8	31.2	32.4	26.9	32.1	30.2	29.2	33.0	29.6	363.8	363.9
TOTAL STAPLE	**343.7**	**361.8**	**370.4**	**358.3**	**350.5**	**354.8**	**334.9**	**371.1**	**366.2**	**395.9**	**370.0**	**389.2**	**4366.8**	**4313.0**
TOTAL NONCELLULOSIC	**660.4**	**704.9**	**724.5**	**711.2**	**699.4**	**704.6**	**657.2**	**716.9**	**719.3**	**760.3**	**728.3**	**754.2**	**8541.2**	**8330.9**
TOTAL MANUFACTURED FIBER	**708.9**	**756.9**	**781.1**	**766.1**	**754.1**	**758.3**	**705.4**	**771.6**	**771.7**	**813.7**	**774.4**	**802.2**	**9164.4**	**8938.1**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
CELLULOSIC														
YARN	12.3	13.3	13.2	14.0	12.8	12.4	13.4	11.6	11.5	12.3	11.2	11.4	11.4	14.2
RAYON STAPLE	23.5	22.5	20.3	18.0	16.5	13.4	15.5	13.7	13.3	12.6	12.5	14.0	14.0	20.7
TOTAL CELLULOSIC	**35.8**	**35.8**	**33.5**	**32.0**	**29.3**	**25.8**	**28.9**	**25.3**	**24.8**	**24.9**	**23.7**	**25.4**	**25.4**	**34.9**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[e]	26.6	25.7	23.5	23.3	25.2	24.7	28.1	30.4	30.5	28.6	23.6	22.3	22.3	20.9
- CARPET	72.0	66.5	67.0	67.1	70.2	71.9	78.0	61.9	58.1	53.3	56.0	57.3	57.3	65.4
- TEXTILE[g]	54.6	53.1	50.0	49.7	51.2	50.4	55.3	55.2	54.6	52.9	50.1	45.7	45.7	49.9
POLYESTER - INDUSTRIAL[e]	29.8	29.2	28.8	29.6	30.5	29.2	33.3	32.4	31.4	30.7	30.1	35.0	35.0	27.8
- TEXTILE[g]	82.5	81.5	79.5	77.3	79.7	82.9	94.4	94.4	90.4	90.1	84.1	70.9	70.9	81.5
OLEFIN[f]	54.4	55.0	53.5	54.1	54.5	54.0	55.3	53.7	52.0	52.0	53.1	53.2	53.2	52.9
TOTAL YARN	**319.9**	**311.0**	**302.3**	**301.1**	**311.3**	**313.1**	**344.4**	**328.0**	**317.0**	**307.6**	**297.0**	**284.4**	**284.4**	**298.4**
STAPLE+TOW+FIBERFILL														
NYLON	63.4	64.7	57.5	64.4	60.5	65.2	66.5	60.6	45.3	39.9	46.7	47.5	47.5	69.7
ACRYLIC+MODACRYLIC	62.4	58.8	55.4	57.9	63.7	67.9	72.8	67.3	62.3	63.1	61.1	61.2	61.2	63.3
POLYESTER	171.5	166.0	157.8	161.8	167.4	173.7	205.7	194.9	188.6	177.5	159.9	159.4	159.4	156.5
OLEFIN+VINYON[d]	32.5	33.7	35.0	35.8	37.8	36.1	38.5	38.4	32.8	34.1	30.8	30.3	30.3	30.1
TOTAL STAPLE	**329.8**	**323.2**	**305.7**	**319.9**	**329.4**	**342.9**	**383.5**	**361.2**	**329.0**	**314.6**	**298.5**	**298.4**	**298.4**	**319.6**
TOTAL NONCELLULOSIC	**649.7**	**634.2**	**608.0**	**621.0**	**640.7**	**656.0**	**727.9**	**689.2**	**646.0**	**622.2**	**595.5**	**582.8**	**582.8**	**618.0**
TOTAL MANUFACTURED FIBER	**685.5**	**670.0**	**641.5**	**653.0**	**670.0**	**681.8**	**756.8**	**714.5**	**670.8**	**647.1**	**619.2**	**608.2**	**608.2**	**652.9**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	12.9	11.7	14.1	11.3	11.5	13.5	11.6	9.5	10.4	12.4	10.8	11.0	140.7	154.4
CARPET CLASS WOOL	1.4	1.5	1.6	1.4	1.4	1.1	1.1	1.4	1.5	1.2	1.0	0.8	15.4	13.2
TOTAL RAW WOOL	14.3	13.2	15.7	12.7	12.9	14.6	12.7	10.9	11.9	13.6	11.8	11.8	156.1	167.6
RAW COTTON	300.0	311.4	339.3	278.0	302.6	297.4	226.4	239.7	307.4	268.9	292.3	237.6	3401.0	3736.5

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Excludes Vinyon in 1987 & 1988.

e. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

f. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

g. Includes low denier industrial yarn.

TABLE 19:
FILAMENT YARN DOMESTIC SHIPMENTS[a]

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1987				1988			
		1985	1986	1987	1988	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(C) CELLULOSIC YARN		*(N) NYLON*				*(P) POLYESTER*				*(O) OLEFIN*			
HOSIERY[b]	N	98.1	95.1	93.2	100.3	23.6	23.5	23.8	22.3	23.1	24.9	23.9	28.4
OTHER CIRCULAR KNIT[c]	N	12.9	21.3	25.3	26.4	7.7	7.0	6.1	4.5	7.1	6.4	6.7	6.2
	P	151.2	150.3	102.8	119.5	21.1	28.8	27.3	25.6	25.6	28.2	27.9	37.8
	C	2.6	2.0	1.1	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.1	0.1
FLAT KNIT	C	53.0	47.8	27.9	24.3	8.7	8.1	5.0	6.1	5.7	7.7	5.8	5.1
	N	143.6	133.8	131.4	133.4	32.0	32.6	33.2	33.6	31.2	33.1	33.2	35.9
	P	160.8	167.1	162.5	162.1	37.5	40.6	41.3	43.1	39.2	43.0	38.6	41.3
CARPET FACE	N	815.4	881.4	916.0	938.3	228.5	235.4	246.1	206.0	228.2	233.8	241.2	235.1
	O	202.1	215.7	244.5	266.6	58.4	60.8	63.0	62.3	65.1	67.9	67.2	66.4
CARPET BACKING[d]	O	354.6	404.1	425.3	427.0	98.1	106.9	110.2	110.1	107.9	113.0	102.1	104.0
OTHER BROAD WOVEN[e]	C	111.3	126.3	122.8	141.9	26.3	31.7	31.4	33.4	31.0	35.2	36.0	39.7
	N	71.4	76.2	79.4	78.3	17.7	19.6	21.4	20.7	20.3	17.6	19.8	20.6
	P	420.1	344.4	379.4	391.3	94.7	97.0	91.8	95.9	89.8	95.5	94.0	112.0
	O	225.7	271.5	317.7	336.6	68.9	77.1	80.3	91.4	84.9	83.7	82.3	85.7
NARROW WOVEN[f]	C	1.5	2.0	2.2	4.4	0.4	0.4	0.4	1.0	1.5	1.1	0.9	0.9
	N	31.1	33.9	42.1	42.0	10.2	11.3	10.6	10.0	11.1	11.1	9.9	9.9
	P	40.0	44.0	66.2	81.0	12.7	17.1	18.7	17.7	15.2	18.9	17.8	29.1
	OS	15.2	17.5	17.7	19.0	4.1	3.6	4.6	5.4	4.7	4.8	4.8	4.7
TIRES INCL CHAFER[g]	N	146.0	134.2	143.0	132.2	38.8	32.5	35.9	35.8	34.5	33.1	31.2	33.4
	P	155.5	159.3	162.8	171.8	40.1	40.5	40.9	41.3	41.3	44.2	43.4	42.9
OTHER RUBBER INDUSTRY[c,g]	N	15.3	15.2	16.4	20.4	3.8	4.4	4.0	4.2	5.5	4.7	4.9	5.3
	P	31.2	27.2	34.5	25.2	8.6	8.8	8.7	8.4	6.7	6.2	6.2	6.1
ROPE, CORDAGE & FISHLINE	N	35.3	36.4	37.9	36.4	9.2	9.8	10.4	8.5	9.7	9.7	8.2	8.8
	P	13.8	13.0	13.4	12.5	3.4	3.1	3.5	3.4	3.7	3.1	2.4	3.3
	O	108.2	106.3	106.7	105.0	25.0	28.2	24.5	29.0	27.9	25.5	23.6	28.0
ALL OTHER[h]	C	18.7	14.0	12.8	11.4	3.4	3.1	3.2	3.1	3.0	3.1	3.0	2.3
	N	48.3	52.1	69.6	64.7	17.8	18.7	14.3	18.8	17.1	21.0	12.1	14.5
	P	231.7	187.1	191.8	194.0	48.7	49.3	48.6	45.2	45.2	52.8	47.9	48.1
	O	31.8	34.1	23.6	29.9	7.0	5.2	4.9	6.5	7.8	7.6	7.7	6.8
TOTAL ABOVE	C	187.1	192.1	166.8	182.6	39.2	43.6	40.2	43.8	41.4	47.3	45.8	48.1
	N	1417.4	1479.6	1554.3	1572.4	389.3	394.8	405.8	364.4	387.8	395.4	391.1	398.1
	P	1204.3	1092.4	1113.4	1157.4	266.8	285.2	280.8	280.6	266.7	291.9	278.2	320.6
	O	937.6	1049.2	1135.5	1184.1	261.5	281.8	287.5	304.7	298.3	302.5	287.7	295.6
TOTAL DOMESTIC		3746.4	3813.3	3970.0	4096.5	956.8	1005.4	1014.3	993.5	994.2	1037.1	1002.8	1062.4
ALSO DIVIDED AS													
APPAREL		*1064.8*	*949.4*	*932.3*	*941.2*	*225.7*	*248.1*	*230.6*	*227.9*	*223.0*	*237.0*	*226.0*	*255.2*
HOME FURNISHINGS		*1624.9*	*1746.8*	*1836.3*	*1902.6*	*442.0*	*467.1*	*482.5*	*444.7*	*463.0*	*485.0*	*475.1*	*479.5*
INDUSTRIAL		*1056.7*	*1117.1*	*1201.4*	*1252.7*	*289.1*	*290.2*	*301.2*	*320.9*	*308.2*	*315.1*	*301.7*	*327.7*
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET)[i]													
NYLON		114.9	115.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYESTER		776.3	634.6	626.3	649.9	149.3	165.8	156.1	155.1	146.7	159.2	153.8	190.2
OLEFIN		22.3	22.9	26.6	24.4	6.1	6.9	6.0	7.6	6.4	6.4	5.5	6.1

NA No longer available.

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small quantities of polyester and cellulosic yarn are included in All Other.

c. Small quantities of olefin are included in All Other.

d. Small quantities of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Cellulosic yarn quantities included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin quantities include sliver knit backing. Also includes indirect exports.

i. These quantities are included in the Total Domestic area above.

TABLE 20:
STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1987				1988			
		1985	1986	1987	1988	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(R) RAYON (N) NYLON (A) ACRYLIC+MODACRYLIC (P) POLYESTER (O) OLEFIN													
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	197.2	228.8	192.4	183.2	57.0	51.4	44.6	39.4	47.5	46.7	46.4	42.6
	NPR	5.5	5.1	3.5	2.7	0.8	0.8	0.9	1.0	0.8	0.7	0.6	0.6
PILE FABRICS[b]	A	24.5	23.2	20.8	21.3	5.6	5.7	5.1	4.4	5.0	5.7	5.6	5.0
	P	14.9	15.0	19.7	14.7	4.4	5.1	6.2	4.0	3.9	3.6	3.3	3.9
OTHER CIRCULAR KNIT + FLAT KNIT[c]	R	5.5	4.7	3.7	2.5	1.2	1.3	0.6	0.6	0.5	0.3	0.8	0.9
	A	139.1	196.3	185.1	139.0	55.7	53.8	42.9	32.7	37.8	39.6	34.2	27.4
	P	295.5	367.8	453.3	470.0	115.2	117.6	106.3	114.2	108.4	112.6	108.5	140.5
BLANKETS[b]	A	30.2	26.7	25.7	25.1	5.9	6.6	7.6	5.6	6.4	5.6	7.9	5.2
	P	6.2	3.7	9.2	6.9	1.3	1.8	2.8	3.3	1.8	1.4	1.6	2.1
OTHER BROAD WOVEN	R	174.9	218.0	230.7	243.0	52.9	55.2	59.9	62.7	58.7	60.5	63.5	60.3
	N	37.4	37.0	38.7	35.2	9.2	8.1	11.1	10.3	8.7	8.0	8.4	10.1
	A	38.2	35.3	41.7	39.3	9.9	10.9	10.1	10.8	10.4	9.6	8.9	10.4
	P	864.9	885.6	839.2	863.5	205.3	218.1	202.9	212.9	210.7	212.9	205.7	234.2
	O	26.9	18.0	20.2	17.1	4.8	4.7	5.5	5.2	4.6	3.8	3.4	5.3
CARPET FACE YARNS[f]	R	0.5	0.4	+	0.4	+	+	0	0	0.2	0.1	0	0.1
	N	773.9	837.8	905.1	f	230.2	239.3	230.6	205.0	f	f	f	f
	P	126.8	145.0	209.0	261.2	46.8	50.7	51.4	60.1	66.1	69.0	62.3	63.8
	O	107.4	117.2	116.2	138.2	24.3	28.9	31.5	31.5	30.3	35.4	34.2	38.3
FIBERFILL[d]	P	281.1	294.9	348.6	357.2	88.9	80.7	83.6	95.4	85.3	84.9	92.9	94.1
FLOCK	NP	5.3	5.9	5.5	6.9	1.6	1.0	1.3	1.6	1.6	1.6	1.6	2.1
	R	1.8	1.8	0.9	0.1	0.5	0.4	0	0	+	+	+	0.1
NONWOVENS[e]	R	113.5	125.4	124.4	122.3	31.1	28.6	31.8	32.9	35.4	36.0	26.7	24.2
	N	2.5	2.1	1.9	2.1	0.4	0.4	0.5	0.6	0.4	0.5	0.6	0.6
	P	162.5	175.4	204.2	244.1	48.7	47.7	51.4	56.4	59.7	55.9	59.0	69.5
	[g] VINYON+O	135.8	166.2	198.0	180.9	49.4	50.4	47.8	50.4	46.0	46.9	45.4	42.6
ALL OTHER	R	25.9	20.8	22.7	17.2	6.0	5.3	5.4	6.0	6.9	5.0	2.9	2.4
	N	11.2	11.9	14.8	901.4	4.6	4.4	2.8	3.0	229.0	214.0	231.1	227.3
	A	29.5	20.9	13.6	13.2	5.3	3.2	2.5	2.6	1.9	2.1	4.3	4.9
	P	116.9	108.3	115.0	91.3	23.3	27.6	32.1	32.0	21.5	31.4	17.3	21.1
	[g] VINYON+O	9.6	11.3	6.7	8.0	2.6	1.7	1.3	1.1	2.9	1.5	1.8	1.8
TOTAL ABOVE	R	**323.7**	**373.0**	**383.1**	**386.0**	**91.8**	**91.0**	**97.9**	**102.4**	**101.9**	**102.0**	**94.0**	**88.1**
	N	**830.3**	**894.9**	**966.0**	**944.9**	**246.2**	**253.2**	**246.2**	**220.4**	**239.4**	**223.9**	**241.6**	**240.0**
	A	**458.7**	**531.2**	**479.3**	**421.1**	**139.4**	**131.6**	**112.8**	**95.5**	**109.0**	**109.3**	**107.3**	**95.5**
	P	**1872.7**	**1998.6**	**2201.0**	**2311.8**	**534.4**	**549.9**	**537.5**	**579.2**	**558.3**	**572.5**	**551.2**	**629.8**
	[g] VINYON+O	**279.7**	**312.7**	**341.1**	**344.2**	**81.1**	**85.7**	**86.1**	**88.2**	**83.8**	**87.6**	**84.8**	**88.0**
TOTAL DOMESTIC		**3765.1**	**4110.4**	**4370.5**	**4408.0**	**1092.9**	**1111.4**	**1080.5**	**1085.7**	**1092.4**	**1095.3**	**1078.9**	**1141.4**
ALSO DIVIDED AS													
APPAREL		*1255.0*	*1489.3*	*1479.9*	*1421.6*	*386.0*	*388.9*	*351.3*	*353.7*	*352.6*	*356.4*	*340.5*	*372.1*
HOME FURNISHINGS		*1536.9*	*1625.8*	*1755.8*	*1827.5*	*425.1*	*450.6*	*448.3*	*431.8*	*451.5*	*445.9*	*455.5*	*474.6*
INDUSTRIAL		*973.2*	*995.3*	*1134.8*	*1158.9*	*281.8*	*271.9*	*280.9*	*300.2*	*288.3*	*293.0*	*282.9*	*294.7*

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a. Olefin quantities are included in All Other.
b. Rayon and nylon quantities are included in All Other.
c. Nylon quantities are included in All Other.
d. Rayon, acrylic and nylon quantities are included in All Other.
e. Wet & dry laid and needled batts only.
f. Acrylic and nylon quantities are included in All Other.
g. 1987-1988 data exclude Vinyon.

TABLE 21:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

	1989												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
	MANUFACTURED FIBER TOTAL SHIPMENTS[b c]													
CELLULOSIC														
YARN	17.3	17.0											34.3	32.0
RAYON STAPLE	34.5	32.1											66.6	68.5
TOTAL CELLULOSIC	51.8	49.1											100.9	100.5
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	31.3	30.5											61.8	59.6
- CARPET	74.7	77.0											151.7	153.3
- TEXTILE[f]	33.7	33.0											66.7	61.2
POLYESTER - INDUSTRIAL[d]	28.6	28.7											57.3	55.8
- TEXTILE[f]	72.4	70.6											143.0	131.3
OLEFIN[e]	98.5	97.4											195.9	198.6
TOTAL YARN	339.2	337.2											676.4	659.8
STAPLE+TOW+FIBERFILL														
NYLON	82.3	78.4											160.7	160.1
ACRYLIC+MODACRYLIC	41.7	46.2											87.9	101.3
POLYESTER	200.5	190.1											390.6	385.4
OLEFIN	31.0	31.4											62.4	58.7
TOTAL STAPLE	355.5	346.1											701.6	705.5
TOTAL NONCELLULOSIC	694.7	683.3											1378.0	1365.3
TOTAL MANUFACTURED FIBER	746.5	732.4											1478.9	1465.8
	MANUFACTURED FIBER END-OF-MONTH STOCK													
CELLULOSIC														
YARN	11.7	10.9											10.9	13.3
RAYON STAPLE	13.0	13.2											13.2	22.5
TOTAL CELLULOSIC	24.7	24.1											24.1	35.8
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.4	24.7											24.7	25.7
- CARPET	63.5	63.3											63.3	66.5
- TEXTILE[f]	47.5	48.4											48.4	53.1
POLYESTER - INDUSTRIAL[d]	35.0	31.4											31.4	29.2
- TEXTILE[f]	73.7	76.9											76.9	81.5
OLEFIN[e]	53.0	54.1											54.1	55.0
TOTAL YARN	297.1	298.8											298.8	311.0
STAPLE+TOW+FIBERFILL														
NYLON	51.8	53.0											53.0	64.7
ACRYLIC+MODACRYLIC	70.6	68.3											68.3	58.8
POLYESTER	163.5	163.8											163.8	166.0
OLEFIN	31.0	31.4											31.4	33.7
TOTAL STAPLE	316.9	316.5											316.5	323.2
TOTAL NONCELLULOSIC	614.0	615.3											615.3	634.2
TOTAL MANUFACTURED FIBER	638.7	639.4											639.4	670.0
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL														
CARPET CLASS WOOL														
TOTAL RAW WOOL														
RAW COTTON														

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

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Manufactured
FIBER REVIEW
A Monthly Summary of Fiber Production Information
Formerly The Man-Made Fiber Review

- SAMPLE -

Vol. 8, No. 2 February 1989

HIGHLIGHTS

In January, production of noncellulosic fiber (except aramid, saran and spandex) totaled 727.6 million pounds, 1.9% below the 741.5 million pounds produced in December. Filament yarn production rose 0.8% to 355.3 million pounds and staple+tow fell 4.3% to 372.3 million pounds.

Shipments of noncellulosic fiber (except aramid, saran and spandex) fell in January to 696.4 million pounds, down 7.7% from the 754.2 million pounds shipped in December. Deliveries of filament yarn fell 6.1% to 342.6 million pounds and shipments of staple+tow fell 9.1% to 353.8 million pounds.

January producer exports of polyester staple+tow rose 21.1% to 13.2 million pounds and exports of acrylic+modacrylic staple+tow fell to 7.4 million pounds, down 62.2%. For January 1989, producer exports of polyester staple+tow were 15.8% above the 11.4 million pounds exported in January 1988.

As of the end of January, stocks of noncellulosic fibers rose to 614.0 million pounds, up 5.4% from 582.8 million pounds in December. Stocks of staple+tow rose 6.2% and stocks of filament yarn rose 4.5%.

MANUFACTURED FIBER PRODUCTION DATA
MILLION POUNDS & PERCENT CHANGE

ITEM	1989 JAN	1988 DEC	% CHG 1-89/12-88	1988 JAN	% CHG 1-89/1-88	YEAR TO DATE 1989	YEAR TO DATE 1988	% CHG 1989/1988
CELLULOSIC								
YARN	21.4	20.2	+5.9	14.0	+52.9	21.4	14.0	+52.9
RAYON STAPLE	33.5	29.5	+13.6	35.4	-5.4	33.5	35.4	-5.4
TOTAL CELLULOSIC FIBER	**54.9**	**49.7**	**+10.5**	**49.4**	**+11.1**	**54.9**	**49.4**	**+11.1**
NONCELLULOSIC								
YARN								
NYLON - INDUSTRIAL	33.4	30.1	+11.0	33.2	+0.6	33.4	33.2	+0.6
- CARPET	80.9	77.5	+4.4	79.2	+2.1	80.9	79.2	+2.1
- TEXTILE [a]	35.5	32.4	+9.6	34.7	+2.3	35.5	34.[illegible]	+2.3
POLYESTER - INDUSTRIAL	28.6	36.6	-21.9	28.5	+0.4	28.6	28.5	+0.4
- TEXTILE [a]	75.2	80.3	-6.4	63.9	+17.7	75.2	63.9	+17.7
OLEFIN	101.7	95.5	+6.5	98.7	+3.0	101.7	98.7	+3.0
TOTAL YARN	**355.3**	**352.4**	**+0.8**	**338.2**	**+5.1**	**355.3**	**338.2**	**+5.1**
STAPLE+TOW+FIBERFILL								
NYLON	86.6	78.8	+9.9	72.1	+20.1	86.6	72.1	+20.1
ACRYLIC+MODACRYLIC	51.1	49.2	+3.9	47.6	+7.4	51.1	47.6	+7.4
POLYESTER	204.6	232.0	-11.8	207.6	-1.4	204.6	207.6	-1.4
OLEFIN	30.0	29.1	+3.1	31.5	-4.8	30.0	31.5	-4.8
TOTAL STAPLE	**372.3**	**389.1**	**-4.3**	**358.8**	**+3.8**	**372.3**	**358.8**	**+3.8**
TOTAL NONCELLULOSIC FIBER	**727.6**	**741.5**	**-1.9**	**697.0**	**+4.4**	**727.6**	**697.0**	**+4.4**
TOTAL MANUFACTURED FIBER	**782.5**	**791.2**	**-1.1**	**746.4**	**+4.8**	**782.5**	**746.4**	**+4.8**

a. Includes low denier industrial nylon and polyester yarn.

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NONCELLULOSIC YARN+MONOFILAMENTS
PRODUCTION, SHIPMENTS & STOCK
MONTHLY 1988
MILLION POUNDS

ITEM	1988												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
NYLON														
INDUSTRIAL[a]														
Domestic Shipments-Tires	12.2	13.2	14.1	14.0	13.8	13.2	11.8	12.3	11.3	11.3	12.8	11.6	151.6	161.1
Other	8.1	9.4	10.4	9.3	9.4	9.5	8.6	8.9	8.8	9.2	9.5	9.4	110.5	109.9
Export	7.2	9.5	10.3	8.9	7.6	9.7	12.0	7.6	9.1	9.4	11.4	10.4	113.1	102.4
Ending Stock	26.6	25.7	23.5	23.3	25.2	24.7	28.1	30.4	30.5	28.6	23.6	22.3	22.3	20.9
CARPET														
Domestic Shipments	69.2	77.6	81.4	77.8	79.7	76.3	70.4	87.0	83.8	84.2	78.6	72.3	938.3	916.0
Export	3.4	3.1	3.2	2.9	2.2	3.0	3.3	2.4	3.3	3.6	3.6	3.9	37.9	25.6
Ending Stock	72.0	66.5	67.0	67.1	70.2	71.9	78.0	61.9	58.1	53.3	56.0	57.3	57.3	65.4
TEXTILE[c]														
Domestic Shipments	29.3	30.3	32.6	30.4	31.0	31.0	26.6	31.2	30.4	31.4	32.6	35.2	372.0	367.3
Export	0.7	0.9	1.3	1.3	1.0	1.5	1.1	1.1	1.6	1.5	1.4	1.6	15.0	11.5
Ending Stock	54.6	53.1	50.0	49.7	51.2	50.4	55.3	55.2	54.6	52.9	50.1	45.7	45.7	49.9
TOTAL NYLON ABOVE														
PRODUCTION	147.1	136.1	148.5	144.2	151.2	144.6	148.2	136.6	144.0	142.2	144.8	140.0	1727.5	1697.2
Domestic Shipments	118.8	130.5	138.5	131.5	133.9	130.0	117.4	139.4	134.3	136.1	133.5	128.5	1572.4	1554.3
Export	11.3	13.5	14.8	13.1	10.1	14.2	16.4	11.1	14.0	14.5	16.4	15.9	166.0	139.5
TOTAL SHIPMENTS	130.1	144.0	153.3	144.6	144.7	144.2	133.8	150.5	148.3	150.6	149.9	144.4	1738.4	1693.8
ENDING STOCK	153.2	145.3	140.5	140.1	146.6	147.0	161.4	147.5	143.2	134.8	129.7	125.3	125.3	136.2
POLYESTER														
INDUSTRIAL[a]														
Domestic Shipments-Tires	12.8	14.3	14.0	14.0	13.3	16.1	14.1	14.3	*14.7	14.3	12.9	*15.4	*170.2	161.8
Other	10.6	11.2	~~12.6~~	~~13.0~~	12.5	12.6	12.5	11.3	12.0	13.2	12.1	12.7	146.2	140.0
Export	3.1	3.8	4.2	4.3	3.6	3.6	2.7	3.4	3.9	3.9	3.7	3.6	43.8	37.0
Ending Stock	29.8	29.2	28.8	29.6	30.5	29.2	33.3	32.4	31.4	30.7	30.1	35.0	35.0	27.8
TEXTILE[c]														
Domestic Shipments by Denier														
40+50 (55 & Finer)	2.5	2.7	3.0	3.3	3.9	3.1	2.7	2.8	2.5	2.4	2.6	2.8	34.3	34.6
70 (56-89)	8.8	9.9	10.4	12.7	11.8	11.3	10.9	11.0	11.1	11.8	14.4	16.1	140.2	126.6
100 (90-109)	3.1	3.0	3.3	3.3	4.0	3.8	3.7	3.2	4.1	4.3	4.0	5.0	44.8	45.4
120 (110-129) & 135 (130-144)	1.3	1.4	2.0	1.4	1.5	1.2	1.8	1.4	1.7	1.5	0.8	1.1	17.1	15.6
150 (145-179)	39.7	42.4	39.1	42.8	42.4	42.1	42.7	38.9	41.4	47.2	47.5	55.0	521.2	517.0
200 (180 & Coarser)	5.4	6.8	6.5	8.8	6.3	6.7	6.1	7.2	6.1	8.0	6.5	9.0	83.4	72.4
Total Textile Domestic	60.8	66.2	64.3	72.3	69.9	68.2	67.9	64.5	66.9	75.2	75.8	89.0	841.0	811.6
Domestic Shipments also Divided as														
Textured Yarn	47.2	51.4	48.1	55.4	52.2	51.6	53.3	49.3	51.2	59.2	58.9	72.1	649.9	626.3
Flat Yarn	13.6	14.8	16.2	16.9	17.7	16.6	14.6	15.2	15.7	16.0	16.9	16.9	191.1	185.3
Export	2.1	2.2	3.4	2.0	2.0	2.3	2.3	2.2	2.2	2.5	3.2	4.5	30.9	29.9
Ending Stock	82.5	81.5	79.5	77.3	79.7	82.9	94.4	94.4	90.4	90.1	84.1	70.9	70.9	81.5
TOTAL POLYESTER ABOVE														
PRODUCTION	92.4	96.1	96.0	104.2	104.6	104.7	115.1	94.8	*94.7	108.1	101.1	*116.9	*1228.7	1178.7
Domestic Shipments	84.2	91.7	90.8	99.3	95.7	96.9	94.5	90.1	*93.6	102.7	100.8	*117.1	*1157.4	1113.4
of Which Indirect Exports	*3.9*	*4.7*	*4.3*	*3.4*	*3.4*	*4.1*	*3.3*	*2.7*	*2.4*	*3.0*	*3.2*	*3.4*	*41.8*	*52.5*
Export	5.2	6.0	7.6	6.3	5.6	5.9	5.0	5.6	6.1	6.4	6.9	8.1	74.7	66.9
TOTAL SHIPMENTS	89.4	97.7	98.4	105.6	101.3	102.8	99.5	95.7	*99.7	109.1	107.7	*125.2	*1232.1	1180.3
ENDING STOCK	112.3	110.7	108.3	106.9	110.2	112.1	127.7	126.8	121.8	120.8	114.2	105.9	105.9	109.3
OLEFIN														
PRODUCTION	98.7	102.0	100.9	103.3	103.3	102.3	90.3	98.0	103.4	*104.7	*101.8	*95.5	*1204.2	1133.8
Shipments														
Filament Yarn	20.6	22.6	24.5	23.4	22.8	22.6	19.5	24.8	25.8	24.1	23.4	23.9	278.0	25[illegible]
Film Fiber & Other	76.6	78.8	77.9	79.3	80.1	80.2	69.5	74.8	79.3	*80.6	*77.3	*71.5	*925.9	888.7
TOTAL SHIPMENTS	97.2	101.4	102.4	102.7	102.9	102.8	89.0	99.6	105.1	*104.7	*100.7	*95.4	*1203.9	1143.8
ENDING STOCK	54.4	55.0	53.5	54.1	54.5	54.0	55.3	53.7	52.0	52.0	53.1	*53.2	*53.2	52.9
TOTAL ABOVE[b]														
PRODUCTION	338.2	334.2	345.4	351.7	359.1	351.6	353.6	329.4	*342.1	*355.0	*347.7	*352.4	*4160.4	4009.7
DOMESTIC SHIPMENTS[d]	300.2	323.6	331.7	333.5	332.5	329.7	300.9	329.1	*333.0	*343.5	*335.0	*341.0	*3933.7	3811.5
EXPORTS[e]	16.5	19.5	22.4	19.4	16.4	20.1	21.4	16.7	20.1	20.9	23.3	24.0	240.7	206.4
TOTAL SHIPMENTS	316.7	343.1	354.1	352.9	348.9	349.8	322.3	345.8	*353.1	*364.4	*358.3	*365.0	*4174.4	4017.9
ENDING STOCK	319.9	311.0	302.3	301.1	311.3	313.1	344.4	328.0	317.0	307.6	297.0	*284.4	*284.4	298.4

See footnotes opposite.

NONCELLULOSIC STAPLE+TOW+FIBERFILL
PRODUCTION, SHIPMENTS & STOCK

MONTHLY 1988

MILLION POUNDS

ITEM	1988												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
NYLON														
PRODUCTION - TOTAL	72.1	83.0	76.4	77.9	74.0	84.0	76.3	84.3	66.0	84.2	84.7	78.8	941.7	992.4
Domestic Shipments by Denier														
Less than 10	7.7	7.5	7.1	6.5	8.1	9.1	7.4	8.6	8.4	9.4	9.1	10.2	99.1	98.8
10, Less than 15	1.9	3.1	2.0	1.6	2.1	2.2	2.8	3.6	3.3	2.6	2.5	2.8	30.5	29.2
15, Less than 20	60.8	63.3	66.9	*55.8	59.8	*61.3	58.3	70.6	60.8	69.5	57.2	58.1	*742.4	774.9
20 & Coarser	6.3	6.4	6.4	5.8	6.3	5.3	5.1	5.8	6.9	6.3	7.4	4.9	72.9	63.1
Total Domestic Shipments	76.7	80.3	82.4	*69.7	76.3	*77.9	73.6	88.6	79.4	87.8	76.2	76.0	944.9	966.0
Export	1.7	1.4	1.2	*1.3	1.6	*1.4	1.4	1.6	1.9	1.8	1.7	2.0	19.0	19.5
TOTAL SHIPMENTS	78.4	81.7	83.6	71.0	77.9	79.3	75.0	90.2	81.3	89.6	77.9	78.0	963.9	985.5
ENDING STOCK	63.4	64.7	57.5	64.4	60.5	65.2	66.5	60.6	45.3	39.9	46.7	47.5	47.5	69.7
ACRYLIC+MODACRYLIC														
PRODUCTION - TOTAL	47.6	49.2	52.0	47.9	51.4	51.6	47.0	47.7	46.8	49.6	48.1	49.2	588.1	591.5
Domestic Shipments by Denier														
Less than 4	23.8	27.2	32.8	27.8	29.1	27.5	23.3	31.2	27.4	24.9	25.0	22.0	322.0	369.1
4 & Coarser	8.5	7.8	8.9	8.4	8.5	8.0	6.9	8.7	9.8	8.4	7.7	7.5	99.1	110.2
Total Domestic Shipments	32.3	35.0	41.7	36.2	37.6	35.5	30.2	39.9	37.2	33.3	32.7	29.5	421.1	479.3
Export	16.2	17.8	13.7	9.2	8.0	11.9	11.9	13.3	14.6	15.5	17.4	19.6	169.1	115.1
TOTAL SHIPMENTS	48.5	52.8	55.4	45.4	45.6	47.4	42.1	53.2	51.8	48.8	50.1	49.1	590.2	594.4
ENDING STOCK	62.4	58.8	55.4	57.9	63.7	67.9	72.8	67.3	62.3	63.1	61.1	61.2	61.2	63.3
POLYESTER														
PRODUCTION - TOTAL	*202.7	*192.2	*192.5	216.1	201.4	202.0	222.9	*184.8	*196.6	217.2	191.4	*232.0	*2451.8	2361.8
Domestic Shipments by Denier														
Fiberfill	*26.6	*30.7	*28.0	*31.8	*27.5	*25.6	*30.7	*28.5	*33.7	*33.7	*29.1	*31.3	*357.2	348.6
Less than 1.3	52.7	*55.8	*57.0	57.2	56.2	59.0	52.5	55.4	55.2	65.6	61.9	71.0	699.5	631.1
1.3, Less than 2.5	*55.7	*61.3	*58.9	63.4	58.5	59.1	52.7	54.9	54.9	64.7	55.7	*66.0	*705.8	757.0
2.5, Less than 5.5	*10.5	*11.7	*12.1	14.1	11.9	12.4	*13.4	*12.6	*13.5	15.4	14.0	14.9	*156.5	135.5
5.5, Less than 10	*6.4	*5.9	*7.0	6.6	7.2	5.9	5.8	6.8	7.2	7.4	6.6	8.4	81.2	81.6
10 & Coarser	*24.4	*25.3	*28.3	*28.0	*25.3	*22.8	*22.2	*25.3	*25.9	*27.0	*27.1	*30.0	*311.6	247.2
Total Domestic Shipments	*176.3	*190.7	*191.3	201.1	186.6	184.8	177.3	*183.5	*190.4	213.8	194.4	*221.6	*2311.8	2201.0
Domestic Shipments also Divided as														
Carpet	*21.4	*21.7	*23.0	24.9	23.5	20.6	18.8	21.1	22.4	20.4	20.8	*22.6	*261.2	209.0
Other	*154.9	*169.0	*168.3	176.2	163.1	164.2	158.5	*162.4	*168.0	193.4	173.6	*199.0	*2050.6	1992.0
Export	11.4	*7.0	*9.4	11.0	9.2	10.9	13.6	12.1	12.5	14.5	14.6	10.9	137.1	168.2
TOTAL SHIPMENTS	*187.7	*197.7	*200.7	212.1	195.8	195.7	190.9	*195.6	*202.9	228.3	209.0	*232.5	*2448.9	2369.2
ENDING STOCK	*171.5	*166.0	157.8	161.8	167.4	173.7	205.7	194.9	188.6	177.5	159.9	159.4	159.4	156.5
OLEFIN														
PRODUCTION	31.5	30.8	32.0	30.6	33.2	30.7	29.3	32.0	24.6	30.5	29.7	*29.1	*364.0	360.5
SHIPMENTS	29.1	29.6	30.7	29.8	31.2	32.4	26.9	32.1	30.2	29.2	33.0	*29.6	*363.8	363.9
ENDING STOCK	32.5	33.7	35.0	35.8	37.8	36.1	38.5	38.4	32.8	34.1	30.8	30.3	30.3	30.1
TOTAL ABOVE														
PRODUCTION	*353.9	*355.2	*352.9	372.5	360.0	368.3	375.5	*348.8	*334.0	381.5	353.9	*389.1	*4345.6	4306.2
DOMESTIC SHIPMENTS [d]	*314.4	*335.6	*346.1	*336.8	331.7	*330.6	308.0	*344.1	*337.2	364.1	336.3	*356.7	*4041.6	4010.2
EXPORTS [e]	29.3	*26.2	*24.3	*21.5	18.8	*24.2	26.9	27.0	29.0	31.8	33.7	32.5	325.2	302.8
TOTAL SHIPMENTS	*343.7	*361.8	*370.4	358.3	350.5	354.8	334.9	*371.1	*366.2	395.9	370.0	*389.2	*4366.8	4313.0
ENDING STOCK	*329.8	*323.2	305.7	319.9	329.4	342.9	383.5	361.2	329.0	314.6	298.5	298.4	298.4	319.6

---

*. Revised.

a. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

b. Does not include saran or spandex.

c. Low denier industrial included with Textile.

d. Includes olefin exports.

e. Excludes olefin exports.

CELLULOSIC YARN & STAPLE+TOW PRODUCTION, SHIPMENTS & STOCK

MONTHLY 1988

MILLION POUNDS

ITEM	1988												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
	YARN+MONOFILAMENTS													
CELLULOSIC YARN														
PRODUCTION	14.0	17.1	18.0	20.2	17.1	17.1	20.1	16.8	18.0	19.4	15.9	20.2	213.9	191.1
SHIPMENTS-Domestic	13.0	13.8	14.6	17.2	15.0	15.1	15.8	14.7	15.3	16.4	14.5	17.2	182.6	166.8
-Export	2.9	2.3	3.5	2.2	3.3	2.4	3.3	3.9	2.8	2.2	2.5	2.8	34.1	24.9
-TOTAL	15.9	16.1	18.1	19.4	18.3	17.5	19.1	18.6	18.1	18.6	17.0	20.0	216.7	191.7
ENDING STOCK	12.3	13.3	13.2	14.0	12.8	12.4	13.4	11.6	11.5	12.3	11.2	11.4	11.4	14.2

INCLUDES ACETATE AND RAYON YARN+MONOFILAMENT

ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
	STAPLE+TOW													
RAYON														
PRODUCTION	35.4	34.9	36.3	33.2	34.9	33.1	31.2	34.3	33.9	34.1	29.0	29.5	399.8	413.8
SHIPMENTS-Domestic	31.2	34.1	36.6	33.8	34.3	33.9	27.4	34.3	32.3	33.5	28.2	26.4	386.0	383.1
-Export	1.4	1.8	1.9	1.7	2.1	2.3	1.7	1.8	2.0	1.3	0.9	1.6	20.5	32.4
-TOTAL	32.6	35.9	38.5	35.5	36.4	36.2	29.1	36.1	34.3	34.8	29.1	28.0	406.5	415.5
ENDING STOCK	23.5	22.5	20.3	18.0	16.5	13.4	15.5	13.7	13.3	12.6	12.5	14.0	14.0	20.7

ESTIMATED U.S. MILL CONSUMPTION

MILLION POUNDS

ITEM	1988												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC														
YARN	14	15	16	18	16	17	17	16	17	18	17	19	200	180
STAPLE	34	36	39	36	37	36	30	38	36	37	31	30	420	410
TOTAL CELLULOSIC	48	51	55	54	53	53	47	54	53	55	48	49	620	590
NONCELLULOSIC														
YARN	310	333	342	339	339	334	310	339	342	353	345	350	4036	3933
STAPLE	347	369	374	368	365	364	338	378	368	395	366	387	4419	4385
TOTAL NONCELLULOSIC	657	702	716	707	704	698	648	717	710	748	711	737	8455	8318
TOTAL MANUFACTURED FIBER [a]	705	753	771	761	757	751	695	771	763	803	759	786	9075	8908
COTTON	300	311	339	278	303	297	226	240	307	269	292	238	3400	3738
WOOL	14	13	16	13	13	14	13	11	12	14	12	12	157	169
TOTAL FIBER	1019	1077	1126	1052	1073	1062	934	1022	1082	1086	1063	1036	12632	12815
% OF MILL CONSUMPTION														
MANUFACTURED FIBER	69	70	69	72	71	71	75	75	71	74	72	76	72	70
COTTON	29	29	30	26	28	28	24	24	28	25	27	23	27	29
WOOL	2	1	1	2	1	1	1	1	1	1	1	1	1	1

a. Excludes glass fiber, acetate cigarette tow and Aramid.

C3460-1
5/9/89

FIBER ORGANON

Formerly Textile Organon

Volume 60, No. 4 April 1989

A publication of *Fiber Economics Bureau, Inc.*

TO OUR SUBSCRIBERS:

As you will note on the masthead of this issue, we have changed the name of the TEXTILE ECONOMICS BUREAU, INC. to FIBER ECONOMICS BUREAU, INC. Our most widely circulated publication, the TEXTILE ORGANON, will henceforth be named FIBER ORGANON. We believe these changes better reflect the current work of the Bureau and the content of our publications.

The FIBER ORGANON will continue to be one of the most respected industry statistical data books in the world. We are proud of its well-deserved reputation for timeliness and accuracy. The Bureau will maintain its dedication to the high standards for data coverage set almost 60 years ago. The first issue, called the Textile Economist, was published in July 1930, as a periodical for the Tubize Chatillon Corporation. In 1931, the name was changed to Textile Organon. The Textile Economic Bureau, Inc. was established in October 1935, and the name Rayon Organon was used until 1952 when the title Textile Organon was again adopted.

As we look to the years ahead, we welcome your comments on the FIBER ORGANON to help us improve its usefulness to everyone interested in manufactured fiber data.

Rosemarie D. Frick
Rosemarie D. Frick
President & Editor

U.S. CHANGING TO HARMONIZED TARIFF SYSTEM

On January 1, 1989, the United States changed to the new Harmonized Tariff System (HS) to classify imports and exports. This replaces the old Tariff Schedule of the United States which had been in effect since 1930.

Most other nations adopted the Harmonized System last year in an effort to standardize tariff classifications worldwide.

On pages 73 through 79, of this issue, we present the Harmonized Tariff ~~Sch~~edule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, published by the U.S. International Trade Commission.

Fiber Organon

A Monthly Review

Formerly ***Textile Organon***

April 1989

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Highlights

- Imports for Consumption of Silk, Linen, Jute, Sisal and Other Fibers...see page 72.
- U.S. Domestic Consumption of Products Including Other Fibers...begins on page 70.
- Harmonized Tariff Schedule of U.S...begins on page 73.

SHIPMENTS:

In March, total manufactured fiber shipments reached 790 million pounds, 7% above the 735 million pounds shipped in February and 1% above the 781 million pounds shipped in March 1988.

March shipments of noncellulosic filament yarn rose 3% to 349 million pounds and staple+tow rose 11% to 386 million pounds.

Contributing to the increase in shipments over the previous month were polyester staple up 13% or 25 million pounds and nylon staple up 10 million pounds or 13%.

Year-to-date domestic shipments of manufactured fiber are up 2% and exports are down 11%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1989		% CHG	1988	% CHG	YEAR TO DATE		% CHG YTD
	MAR	FEB	3/89-2/89	MAR	3/89-3/88	1989	1988	1989-1988
CELLULOSIC								
YARN	18.4	17.0	*+8.2*	18.1	*+1.7*	52.7	50.1	*+5.2*
RAYON STAPLE	36.5	32.1	*+13.7*	38.5	*-5.2*	103.1	107.0	*-3.6*
TOTAL CELLULOSIC	54.9	49.1	*+11.8*	56.6	*-3.0*	155.8	157.1	*-0.8*
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	32.2	30.5	*+5.6*	34.8	*-7.5*	94.0	94.4	*-0.4*
- CARPET	82.4	77.0	*+7.0*	84.6	*-2.6*	234.1	237.9	*-1.6*
- TEXTILE [a]	34.8	33.2	*+4.8*	33.9	*+2.7*	102.0	95.1	*+7.3*
POLYESTER - INDUSTRIAL	30.4	28.7	*+5.9*	30.7	*1.0*	87.7	86.5	*+1.4*
- TEXTILE [a]	75.0	71.1	*+5.5*	67.7	*+10.8*	218.6	199.0	*+9.8*
OLEFIN	94.2	97.4	*-3.3*	102.4	*-8.0*	290.1	301.0	*-3.6*
TOTAL YARN	349.0	337.9	*+3.3*	354.1	*-1.4*	1026.5	1013.9	*+1.2*
STAPLE+TOW+FIBERFILL								
NYLON	88.7	78.4	*+13.1*	83.6	*+6.1*	249.4	243.7	*+2.3*
ACRYLIC+MODACRYLIC	48.8	46.2	*+5.6*	55.4	*-11.9*	136.7	156.7	*-12.8*
POLYESTER	217.3	192.1	*+13.1*	200.7	*+8.3*	609.9	586.1	*+4.1*
OLEFIN	31.4	31.7	*-0.9*	30.7	*+2.3*	94.1	89.4	*+5.3*
TOTAL STAPLE	386.2	348.4	*+10.8*	370.4	*+4.3*	1090.1	1075.9	*+1.3*
TOTAL NONCELLULOSIC	735.2	686.3	*+7.1*	724.5	*+1.5*	2116.6	2089.8	*+1.3*
TOTAL MANUFACTURED FIBER	790.1	735.4	*+7.4*	781.1	*+1.2*	2272.4	2246.9	*+1.1*
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS [b]	743.5	693.6	*+7.2*	729.0	*+2.0*	2137.6	2094.9	*+2.0*
EXPORTS [c]	46.6	41.8	*+11.5*	52.1	*-10.6*	134.8	152.0	*-11.3*

[a] Includes low denier industrial yarn.

[b] Includes olefin exports.

[c] Excludes olefin exports.

TABLE 2:
MANUFACTURED FIBER PRODUCTION, NUMBER OF EMPLOYEES & PRODUCTION PER EMPLOYEE IN SELECTED COUNTRIES
1980-1987

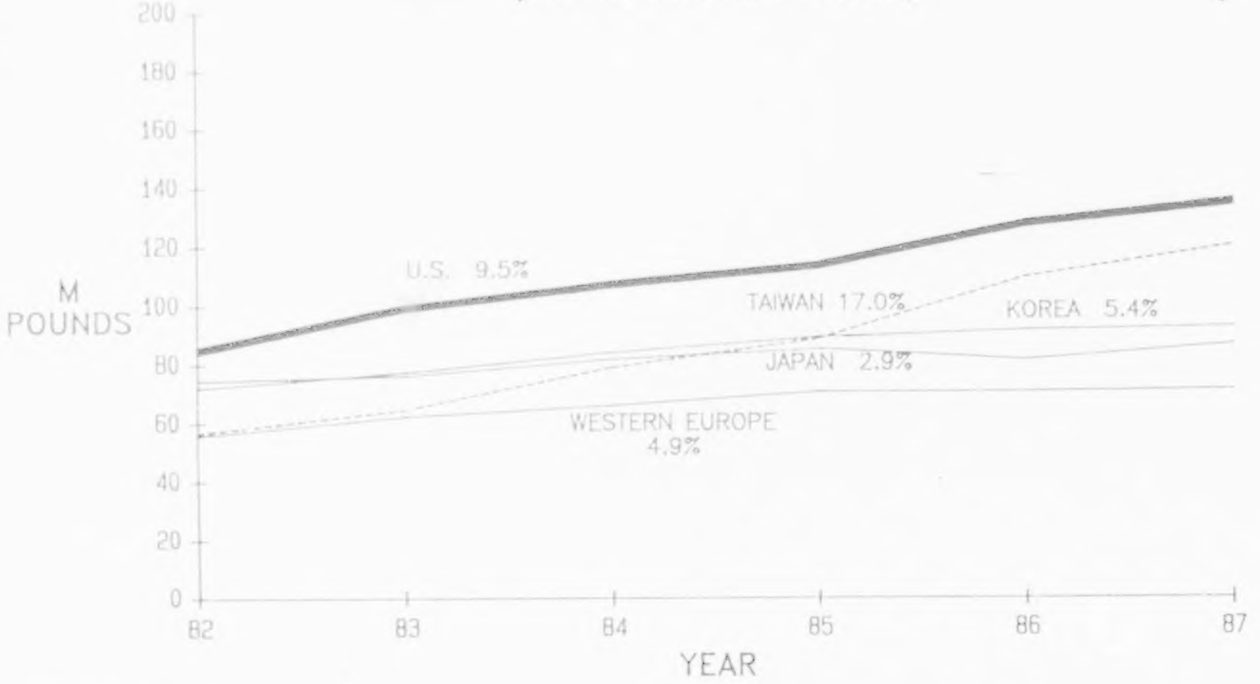
YEAR	MANUFACTURED FIBER PRODUCTION[a] Million Pounds	# OF EMPLOYEES[a]	PRODUCTION[a] PER EMPLOYEE Thousand Pounds
U.S.A.			
1982	6319.6	74619	84.7
1983	7272.6	73150	99.4
1984	7103.4	66032	107.6
1985	6872.1	60340	113.9
1986	7053.7	55058	128.1
1987	7427.0	54860	135.4
JAPAN			
1982	3706.7	49695	74.6
1983	3761.0	49200	76.4
1984	3850.7	46885	82.1
1985	3947.5	46195	85.5
1986	3693.9	45235	81.7
1987	3617.9	41570	87.0
TAIWAN			
1982	1595.5	28065	56.7
1983	1851.0	28575	64.7
1984	2204.2	27785	79.3
1985	2525.3	28375	88.9
1986	2980.7	27110	110.0
1987	3331.0	27600	120.7
KOREA, REP. OF			
1982	1385.0	19220	72.1
1983	1492.4	19230	77.6
1984	1673.9	19830	84.4
1985	1819.6	20325	89.5
1986	1931.4	21005	91.9
1987	2167.8	23335	92.9
WESTERN EUROPE[b]			
1982	5734.8	102865	55.8
1983	6081.1	97425	62.4
1984	6311.8	95290	66.2
1985	6418.6	90700	70.8
1986	6197.2	87360	70.9
1987	6171.7	86375	71.5

Source: C.I.R.F.S., Taiwan Man-Made Fiber Industry and Fiber Ecomics Bureau, Inc.

a. Including Cellulosic & Noncellulosic Fiber, except olefin.

b. Excluding Greece and Turkey.

GRAPH 1:
MANUFACTURED FIBERS 1982 – 1987
ANNUAL PRODUCTION PER EMPLOYEE
(TREND GROWTH RATES)



NOTE OF LIMITATION

"PRODUCTION" may or may not include olefin and specialty fibers. Major differences in product mix (filament vs. staple, textile vs. industrial products, etc.) impact productivity.

"EMPLOYMENT" may or may not include administration, marketing, research and development and support personnel. This analysis must therefore be viewed with considerable caution as to valid comparability.

TABLE 3:
U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS INCLUDING OTHER FIBERS

MILLION POUNDS & *PERCENT*

MANUFACTURED FIBER MILL CONSUMPTION: PRODUCERS' SHIPMENTS (DOM) PLUS IMPORTS FOR CONSUMPTION (IMP)

	CELLULOSIC FIBER											NONCELLULOSIC FIBER										
	YARN+MONOFIL			STAPLE+TOW			WASTE					YARN+MONOFIL			STAPLE+TOW			WASTE				
YEAR	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET	TOTAL	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
1974	473.4	9.2	482.6	589.2	38.7	627.9	29.9	0.2	33.0	2.9	1107.6	3142.3	92.1	3234.4	2450.5	73.2	2523.7	246.4	46.3	91.2	201.5	5959.6
1975	368.6	9.2	377.8	385.4	37.9	423.3	13.2	0.1	12.4	0.9	802.0	3214.8	53.8	3268.6	2553.5	55.2	2608.7	228.7	25.0	50.0	203.7	6081.0
1976	314.5	25.1	339.6	472.0	43.2	515.2	14.7	0.4	14.6	0.5	855.3	3147.2	64.0	3211.2	3018.5	67.3	3085.8	262.3	30.5	70.2	222.6	6519.6
1977	327.5	23.5	351.0	452.9	57.8	510.7	18.5	0.6	12.6	6.5	868.2	3461.4	92.5	3553.9	3373.1	52.9	3426.0	291.0	23.2	66.1	248.1	7228.0
1978	337.6	25.7	363.3	466.2	41.1	507.3	15.7	0.4	7.0	9.1	879.7	3641.9	52.2	3694.1	3505.5	60.5	3566.0	263.9	26.0	88.7	201.2	7461.3
1979	343.4	13.3	356.7	449.4	16.5	465.9	17.2	0.8	9.6	8.4	831.0	3797.6	20.0	3817.6	3713.5	39.3	3752.8	238.6	21.1	137.7	122.0	7692.4
1980	316.7	8.3	325.0	397.7	10.3	408.0	13.5	0.3	6.1	7.7	740.7	3532.0	19.6	3551.6	3482.5	35.6	3518.1	170.2	21.5	116.4	75.3	7145.0
1981	272.9	10.7	283.6	400.9	16.8	417.7	15.3	0.5	[illegible]	13.0	714.3	3483.1	18.9	3502.0	3327.9	60.5	3388.4	174.2	49.9	107.3	116.8	7007.2
1982	199.1	7.0	206.1	294.7	13.4	308.1	10.7	0.4	3.2	7.9	522.1	2893.9	23.8	2917.7	3037.6	51.2	3088.8	173.2	37.8	86.1	124.9	6131.4
1983	233.1	8.7	241.8	334.9	13.6	348.5	9.4	0.3	1.4	8.3	598.6	3385.4	48.3	3433.7	3671.9	101.4	3773.3	214.1	46.1	71.3	188.9	7395.9
1984	218.3	10.0	228.3	332.3	17.0	349.3	11.4	0.5	1.6	10.3	587.9	3308.6	90.0	3398.6	3494.2	131.1	3625.3	216.9	50.5	89.7	177.7	7201.6
1985	187.1	13.9	201.0	324.2	12.3	336.5	8.8	0.5	1.2	8.1	545.6	3559.2	104.6	3663.8	3441.4	159.4	3600.8	260.2	40.7	75.6	225.3	7489.9
1986	192.1	17.0	209.1	373.5	17.4	390.9	10.4	0.1	2.2	8.3	608.3	3621.2	126.1	3747.3	3737.4	182.8	3920.2	261.5	40.3	123.7	178.1	7845.6
1987	166.8	12.8	179.6	383.6	13.8	397.4	9.6	0.1	1.1	8.6	585.6	3803.2	123.9	3927.1	3987.4	189.0	4176.4	239.1	47.0	113.5	172.6	8276.1
1988	182.6	17.6	200.2	386.5	20.4	406.9	7.8	–	2.0	5.8	612.9	3913.9	116.3	4030.2	4022.0	196.2	4218.2	254.1	40.5	144.4	150.2	8398.6

Continued on opposite page

TABLE 3:
U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS INCLUDING OTHER FIBERS *(CONTINUED)*
MILLION POUNDS & *PERCENT*

	MILL CONSUMPTION OF 4 FIBERS										DOMESTIC CONSUMPTION OF 4 FIBERS (CONS)=MILL CONSUMPTION+IMPORTS (IMP) LESS EXPORTS (EXP) OF SEMIMANUFACTURED & MANUFACTURED PRODUCTS												
	MANUFAC. FIBER		COTTON		WOOL		OTHER FIBERS		TOTAL		MANUFACTURED FIBER			COTTON			WOOL			OTHER FIBERS	TOTAL		
YEAR	LB	%	LB	%	LB	%	LB	%	LB	%	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS	IMP	IMP	EXP	CONS
	(23)		(24)		(25)		(26)		(27)		(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1974	7067.2	*66.1*	3306.1	*30.9*	116.5	*1.1*	200.8	*1.9*	10690.6	*100.0*	371.3	390.7	7047.8	502.7	392.5	3416.3	53.3	23.0	146.8	1447.3	2374.6	806.2	12058.2
1975	6883.0	*67.4*	3068.7	*30.0*	132.0	*1.3*	133.4	*1.3*	10217.1	*100.0*	400.4	322.4	6961.0	501.3	353.7	3216.3	48.6	19.2	161.4	904.6	1854.9	695.3	11243.3
1976	7374.9	*66.7*	3389.0	*30.6*	145.9	*1.3*	152.1	*1.4*	11061.9	*100.0*	479.5	352.2	7502.2	708.6	413.2	3684.4	66.7	13.9	198.7	1117.0	2371.8	779.3	12502.3
1977	8096.2	*70.1*	3169.8	*27.5*	133.9	*1.2*	144.6	*1.2*	11544.5	*100.0*	530.7	367.7	8259.2	669.4	369.5	3469.7	85.9	11.5	208.3	1071.4	2357.4	748.7	13008.6
1978	8341.0	*71.4*	3040.4	*26.0*	141.6	*1.2*	168.4	*1.4*	11691.4	*100.0*	642.6	441.7	8541.9	845.4	355.7	3530.1	92.2	11.6	222.2	1086.1	2666.3	809.0	13380.3
1979	8523.4	*71.7*	3066.4	*25.8*	134.4	*1.1*	167.9	*1.4*	11892.1	*100.0*	525.0	596.6	8451.8	746.1	478.0	3334.5	80.6	14.0	201.0	1021.9	2373.6	1088.6	13009.2
1980	7885.7	*70.3*	3064.4	*27.4*	137.8	*1.2*	127.1	*1.1*	11215.0	*100.0*	540.6	771.5	7654.8	810.9	523.1	3352.2	85.1	23.8	199.1	807.0	2243.6	1318.4	12013.1
1981	7721.5	*71.9*	2730.8	*25.5*	152.7	*1.4*	129.1	*1.2*	10734.1	*100.0*	639.1	637.7	7722.9	961.9	367.3	3325.4	93.1	11.8	234.0	794.7	2488.8	1016.8	12077.0
1982	6653.5	*70.8*	2478.9	*26.4*	129.5	*1*	130.0	*1.4*	9391.9	*100.0*	697.9	438.5	6912.9	897.2	253.4	3122.7	100.1	10.8	218.8	648.4	2343.6	702.7	10902.8
1983	7994.5	*72.3*	2795.7	*25.2*	162.5	*1*	106.5	*1.0*	11059.2	*100.0*	1069.4	460.7	8603.2	1135.4	219.6	3711.5	149.8	11.6	300.7	690.3	3044.9	691.9	13305.7
1984	7789.5	*72.7*	2668.2	*24.9*	163.2	*1*	95.7	*0.9*	10716.6	*100.0*	1342.6	487.9	8644.2	1465.6	204.6	3929.2	210.2	12.0	361.4	680.1	3698.5	704.5	13614.9
1985	8035.5	*72.6*	2796.0	*25.3*	134.7	*1.2*	103.6	*0.9*	11069.6	*100.0*	1491.0	499.1	9027.4	1629.2	213.2	4212.0	264.8	17.8	381.7	646.9	4031.9	730.1	14268.0
1986	8453.9	*70.3*	3301.7	*27.4*	164.5	*1.4*	103.3	*0.9*	12023.4	*100.0*	1703.0	519.3	9637.6	1910.5	274.8	4937.4	275.6	16.0	424.1	582.4	4471.5	810.1	15581.5
1987	8861.7	*68.9*	3736.5	*29.0*	167.6	*1.3*	104.8	*0.8*	12870.6	*100.0*	1805.4	591.9	10075.2	2335.7	298.0	5774.2	258.3	21.3	404.6	603.5	5002.9	911.2	16857.5
1988	9011.5	*71.2*	3401.0	*26.9*	156.1	*1.2*	83.8	*0.7*	12652.4	*100.0*	1735.7	584.6	10062.6	2118.8	330.2	5189.6	242.4	30.6	367.9	511.0	4607.9	1045.4	16131.1

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.

SOURCES OF DATA, ARRANGED BY COLUMN NUMBER ( ):

All Census import and export commodity numbers are as of January 1987

1 & 4: March issue on page 50
12 & 15: March issue on page 51
7 & 18: March issue on page 47
2: Import Classes 309.0310, .0610, .2000, 310.0106, .0130, .0206, .0230 & .0610
5: Import Classes 309.3010, .3310, .4320 & .4325
8: Import Classes 309.6615 & .7510
9: Export Class 309.7400
13: Import Classes 309.0200, .0330, .0340, .0365, .0500, .0630, .0640, .0665, .2100, .2500, 310.0107, .0108, .0110, .0114, .0149, .0150, .0170, .0207, .0208, .0210, .0214, .0249, .0250, .0270, .0550, .0630 & .0650
16: Import Classes 309.3030, .3040, .3050, .3065, .3200, .3340, .3350, .3365, .4331, .4336, .4341, .4351, .4361, .4366, .4371 & .4390
19: Import Classes 309.6625, .6630, .6645, .6660, .7000 & .7525 - .7555
20: Export Classes 309.7620, .7630, .7640 & .7660
24: U.S. Census Bureau Report M22P.
25: U.S. Census Bureau Report M22D.
26: This issue page 72
28, 29, 31, 32, 34 & 35: Cotton and Wool Outlook & Situation (U.S. Department of Agriculture)
37: This issue page 72

CERTAIN TOTALS IN THE TABLES:

(Obvious totals such as Columns 1+2=3, 4+5=6, etc. are not described here.)

10: Columns 7+8-9
21: Columns 18+19-20
23: Columns 11+22
30: Columns 23+28-29
33: Columns 24+31-32
36: Columns 25+34-35
40: Columns 27+38-39-26

TABLE 4:
IMPORTS FOR CONSUMPTION
MILLION POUNDS

YEAR	SILK				LINEN				JUTE				SISAL & OTHERS				TOTAL IMP TO THE LEFT
	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	
1974	2.6	1.0	0.6	4.2	2.2	6.8	34.3	43.3	62.4	798.4	9.7	870.5	133.6	8.9	386.8	529.3	1447.3
1975	1.0	0.9	0.7	2.6	0.8	4.3	28.4	33.5	46.9	488.8	20.8	556.5	84.7	8.4	218.9	312.0	904.6
1976	2.8	1.4	1.3	5.5	0.9	4.8	34.3	40.0	46.2	583.3	60.9	690.4	102.2	7.6	271.3	381.1	1117.0
1977	1.6	2.0	1.8	5.4	0.4	1.4	35.2	31	26.7	597.9	29.2	653.8	115.9	3.7	253.6	373.2	1071.4
1978	2.0	3.6	3.5	9.1	1.0	5.2	36.2	42.4	37.6	588.6	38.2	664.4	127.8	8.4	234.0	370.2	1086.1
1979	1.5	2.8	3.9	8.2	0.9	5.1	30.4	36.4	48.5	488.8	13.5	550.8	117.0	4.7	304.8	426.5	1021.9
1980	1.0	3.1	4.4	8.5	0.6	2.9	27.7	31.2	20.9	380.4	13.6	414.9	104.6	5.6	242.2	352.4	807.0
1981	1.9	4.6	1.2	7.7	2.9	2.2	22.2	27.3	34.5	370.4	8.4	413.3	89.8	31.8	224.8	346.4	794.7
1982	2.0	4.2	1.7	7.4	7.8	1.5	20.0	29.3	35.2	268.5	5.8	309.5	85.0	30.0	187.2	302.2	648.4
1983	1.6	6.1	1.4	9.1	3.8	2.3	a	6.1	30.4	297.8	6.6	334.8	70.7	29.5	240.1	340.3	690.3
1984	1.4	7.0	2.3	10.7	4.8	3.2	a	8.0	20.0	261.8	4.8	286.6	69.5	41.4	263.9	374.8	680.1
1985	1.5	6.4	2.1	10.2	3.0	1.3	a	4.3	32.6	201.2	7.2	241.0	66.5	33.8	291.1	391.4	646.9
1986	1.0	6.9	2.4	10.3	3.0	1.7	a	4.7	30.4	230.5	6.9	267.8	68.9	27.1	203.6	299.6	582.4
1987	1.4	8.2	1.6	11.2	2.7	1.5	a	4.2	31.5	247.4	6.4	285.3	69.2	27.1	206.5	302.8	603.5
1988[b]	0.9	8.0	2.2	11.1	3.4	1.5	a	4.9	29.1	175.6	8.2	212.9	50.2	21.2	210.7	282.1	511.0

SOURCE: U.S. Dept. of Commerce, Office of Textiles & Apparel

a. Due to changes in the tariff classifications, Linen Finished Goods are included in Sisal & Others Finished Goods.

b. These figures are preliminary for 1988.

Because these fibers are not grown in the United States (flax production is nominal) imports are taken as the total available supply.

SILK: **Raw material** means raw silk plus silk waste & noils. **Semimanufactured** means spun & thrown silk yarns and silk fabrics. **Finished goods** are mainly scarves, handkerchiefs, blouses and laces.

LINEN: **Raw material** includes hackled and unhackled flax, noils, tow & straw. **Semimanufactured** includes linen yarn, sliver & roving. **Finished goods** are mainly fabrics, handkerchiefs, toweling, napery & dresses.

JUTE: **Raw material** includes unmanufactured jute and jute butts. **Semimanufactured** means yarn & roving, new & waste bagging and burlap in the piece. **Finished goods** are mainly cordage, bags and webbing.

SISAL & OTHERS: includes all of the *hard or leaf fibers* (e.g., abaca or manila hemp, coir, crin, henequen, istle or tampico, sisal, etc.) **imported** into the United States plus the *soft or bast fibers* (e.g., hemp, ramie, sunn, etc.) except flax or linen and jute, which are tabulated separately here. **Semimanufactured** is chiefly coir yarns & roving. **Finished goods** are mainly cordage and twine.

HARMONIZED TARIFF SCHEDULE of the United States
Annotated for Statistical Reporting Purposes

Heading/ Subheading	Stat. Suf. & cd		Article Description	Units of Quantity	Rates of Duty 1 General	Rates of Duty 1 Special	Rates of Duty 2
5401			Sewing thread of man-made filaments, whether or not put up for retail sale:				
5401.10.00	00	2	Of synthetic filaments (200)	kg	13%	5.2% (IL) 11.7% (CA)	55%
5401.20.00	00	0	Of artificial filaments (200)	kg	13%	5.2% (IL) 11.7% (CA)	55%
5402			Synthetic filament yarn (other than sewing thread), not put up for retail sale, including synthetic monofilament of less than 67 decitex:				
5402.10			High tenacity yarn of nylon or other polyamides:				
5402.10.30			Single yarn		10%	Free (IL) 9% (CA)	50%
	20	1	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter	kg			
	40	7	Multifilament, with twist of 5 turns or more per meter (606)	kg			
5402.10.60	00	8	Multiple (folded) or cabled (606)	kg	9.1%	3.6% (IL) 8.1%(CA)	55%
5402.20			High tenacity yarn of polyesters:				
5402.20.30			Single yarn		10%	Free (IL) 9% (CA)	50%
	20	9	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter	kg			
	40	5	Multifilament, with twist of 5 turns or more per meter (606)	kg			
5402.20.60	00	6	Multiple (folded) or cabled (606)	kg	9.1%	3.6% (IL) 8.1%(CA)	55%
			Textured yarn:				
5402.31			Of nylon or other polyamides, measuring per single yarn not more than 500 decitex:				
5402.31.30	00	0	Single yarn (600)	kg	10%	Free (IL) 9% (CA)	50%
5402.31.60	00	3	Multiple (folded) or cabled yarn (600)	kg	9.1%	Free (IL) 8.1% (CA)	55%
5402.32			Of nylon or other polyamides, measuring per single yarn more than 500 decitex:				
5402.32.20	00	9	Single yarn (600)	kg	10%	Free (IL) 9% (CA)	50%
5402.32.60	00	2	Multiple (folded) or cabled yarn (600)	kg	9.1%	Free (IL) 8.1% (CA)	55%
5402.33			Of polyesters:				
5402.33.30	00	8	Single yarn (600)	kg	10%	Free (IL) 9% (CA)	50%
5402.33.60	00	1	Multiple (folded) or cabled yarn (600)	kg	9.1%	3.6% (IL) 8.1% (CA)	55%
5402.39			Other:				
5402.39.30	00	2	Single yarn (600)	kg	10%	Free (IL) 9% (CA)	50%
5402.39.60	00	5	Multiple (folded) or cabled yarn (600)	kg	9.1%	3.6% (IL) 8.1% (CA)	55%

HARMONIZED TARIFF SCHEDULE of the United States

Annotated for Statistical Reporting Purposes

Heading/ Subheading	Stat. Suf. & cd		Article Description		Units of Quantity	Rates of Duty		
						1		
						General	Special	2
5402 (con.)			Synthetic filament yarn (other than sewing thread), not put up for retail sale, including synthetic monofilament of less that 67 dec[illegible] (con.)					
			Other yarn, single, untwisted or with a twist not exceeding 50 turns/m:					
5402.41.00			Of nylon or other polyamides			10% 1/	Free (IL) 9% (CA)	50%
	20	0	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter		kg			
	40	6	Multifilament, with twist of 5 turns or more per meter	(606)	kg			
5402.42.00	00	3	Of polyesters, partially oriented	(606)	kg	10%	4% (IL) 9% (CA)	50%
5402.43.00			Of polyesters, other			10%	4% (IL) 9% (CA	50%
	20	8	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter		kg			
	40	4	Multifilament, with twist of 5 turns or more per meter	(606)	kg			
5402.49.00			Other			10% 1/	4% (IL) 9% (CA)	50%
	20	2	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter		kg			
	40	8	Multifilament, with twist of 5 turns or more per meter	(606)	kg			
			Other yarn, single, with a twist exceeding 50 turns/m:					
5402.51.00	00	1	Of nylon or other polyamides	(606)	kg	10%	4% (IL) 9% (CA)	50%
5402.52.00	00	0	Of polyesters	(606)	kg	10%	Free (IL) 9% (CA)	50%
5402.59.00	00	3	Other	(606)	kg	10%	4% (IL) 9% (CA)	50%
			Other yarn, multiple (folded) or cabled:					
5402.61.00	00	9	Of nylon or other polyamides	(606)	kg	9.1%	3.7% (IL) 8.1% (CA)	55%
5402.62.00	00	8	Of polyesters	(606)	kg	9.1%	3.7% (IL) 8.1% (CA)	55%
5402.69.00	00	1	Other	(606)	kg	9.1%	3.7% (IL) 8.1% (CA)	55%

1/ Duty on certain yarns temporarily suspended. See subheading 9902.54.02.

Heading/ Subheading	Stat. Suf. & cd		Article Description	Units of Quantity	Rates of Duty		
					1		2
					General	Special	
5403			Artificial filament yarn (other than sewing thread), not put up for retail sale, including artificial monofilament of less than 67 decitex:				
5403.10			High tenacity yarn of viscose rayon:				
5403.10.30			Single yarn		10%	Free (IL) 9% (CA)	50%
	20	0	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter	kg			
	40	6	Multifilament, with twist of 5 turns or more per meter (606)	kg			
5403.10.60	00	7	Multiple (folded) or cabled (606)	kg	9.1%	3.6% (IL) 8.1% (CA)	55%
5403.20			Textured yarn:				
5403.20.30	00	2	Single yarn (600)	kg	10%	Free (IL) 9% (CA)	50%
5403.20.60	00	5	Multiple (folded) or cabled (600)	kg	9.1%	3.6% (IL) 8.1% (CA)	55%
			Other yarn, single:				
5403.31.00			Of viscose rayon, untwisted or with a twist not exceeding 120 turns/m		10%	Free (IL) 9% (CA)	50%
	20	1	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter	kg			
	40	7	Multifilament, with twist of 5 turns or more per meter (606)	kg			
5403.32.00	00	4	Of viscose rayon, with a twist exceeding 120 turns/m (606)	kg	10%	4% (IL) 9% (CA)	50%
5403.33.00			Of cellulose acetate		10%	Free (IL) 9% (CA)	50%
	20	9	Monofilament; multifilament untwisted or with twist of less than 5 turns per meter	kg			
	40	5	Multifilament, with twist of 5 turns or more per meter (606)	kg			
5403.39.00			Other		10%	Free (IL) 9% (CA)	50%
	20	3	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter	kg			
	40	9	Multifilament, with twist of 5 turns or more per meter (606)	kg			
			Other yarn, multiple (folded) or cabled:				
5403.41.00	00	3	Of viscose rayon (606)	kg	9.1%	3.7% (IL) 8.1% (CA)	55%
5403.42.00	00	2	Of cellulose acetate (606)	kg	9.1%	3.7% (IL) 8.1% (CA)	55%
5403.49.00	00	5	Other (606)	kg	9.1%	3.7% (IL) 8.1% (CA)	55%

Heading/ Subheading	Stat. Suf. & cd		Article Description	Units of Quantity	Rates of Duty		
					1		
					General	Special	2
5404			Synthetic monofilament of 67 decitex or more and of which no cross sectional dimension exceeds 1 mm; strip and the like (for example artificial straw) of synthetic textile materials of an apparent width not exceeding 5 mm:				
5404.10			Monofilament:				
5404.10.10	00	7	Racket strings	kg	3.1%	Free (A,E,IL) 2.7% (CA)	30%
5404.10.20			Other		7.8%	3.1% (IL) 7% (CA)	50%
	20	1	Of nylon or other polyamides	kg			
	40	7	Of polyesters	kg			
	90	6	Other	kg			
5404.90.00	00	2	Other	kg	5.1%	Free (A) 2.1% (IL) 4.5% (CA)	45%
5405.00			Artificial monofilament of 67 decitex or more and of which no cross sectional dimension exceeds 1 mm; strip and the like (for example artificial straw) of artificial textile materials of an apparent width not exceeding 5 mm:				
5405.00.30	00	4	Monofilament	kg	7.8%	3.1% (IL) 7% (CA)	50%
5405.00.60	00	7	Other	kg	6.6%	Free (A) 2.6% (IL) 5.9% (CA)	45%
5406			Man made filament yarn (other than sewing thread), put up for retail sale:				
5406.10.00			Synthetic filament yarn		13%	Free (IL) 11.7% (CA)	55%
	20	3	Of acrylic (200)	kg			
	40	9	Of polyesters (200)	kg			
	90	8	Other (200)	kg			
5406.20.00	00	5	Artificial filament yarn (200)	kg	13%	Free (IL) 11.7% (CA)	55%

HARMONIZED TARIFF SCHEDULE of the United States
Annotated for Statistical Reporting Purposes

Heading/ Subheading	Stat. Suf. & cd		Article Description	Units of Quantity	Rates of Duty		
					1		2
					General	Special	
5501			Synthetic filament tow:				
5501.10.00	00	1	Of nylon or other polyamides	kg	10%	Free (IL) 9% (CA)	45%
5501.20.00	00	9	Of polyesters	kg	10%	4% (IL) 9% (CA)	45%
5501.30.00	00	7	Acrylic or modacrylic	kg	10%	4% (IL) 9% (CA)	45%
5501.90.00	00	4	Other	kg	10%	4% (IL) 9% (CA)	45%
5502.00.00	00	2	Artificial filament tow	kg	10%	4% (IL) 9% (CA)	45%
5503			Synthetic staple fibers, not carded, combed or otherwise processed for spinning:				
5503.10.00	00	9	Of nylon or other polyamides	kg	4.9%	Free (IL) 4.4% (CA)	25%
5503.20.00	00	7	Of polyesters	kg	4.9%	Free (IL) 4.4% (CA)	25%
5503.30.00	00	5	Acrylic or modacrylic	kg	4.9%	Free (IL) 4.4% (CA)	25%
5503.40.00	00	3	Of polypropylene	kg	4.9%	2% (IL) 4.4% (CA)	25%
5503.90.00	00	2	Other	kg	4.9%	2% (IL) 4.4% (CA)	25%
5504			Artificial staple fibers, not carded, combed or otherwise processed for spinning:				
5504.10.00	00	8	Of viscose rayon	kg	4.9%	Free (IL) 4.4% (CA)	25%
5504.90.00	00	1	Other	kg	4.9%	Free (IL) 4.4% (CA)	25%
5505			Waste (including noils, yarn waste and garnetted stock) of man-made fibers:				
5505.10.00	00	8	Of synthetic fibers		2.1%	0.9% (IL) 1.8% (CA)	10%
	20	3	Of nylon or other polyamides	kg			
	40	9	Of polyesters	kg			
	60	4	Other	kg			
5505.20.00	00	5	Of artificial fibers	kg	2.1%	0.9% (IL) 1.8% (CA)	10%
5506			Synthetic staple fibers,carded, combed or otherwise processed for spinning:				
5506.10.00	00	6	Of nylon or other polyamides	kg	6.5%	2.6% (IL) 5.8% (CA)	51.5%
5506.20.00	00	4	Of polyesters	kg	6.5%	2.6% (IL) 5.8% (CA)	51.5%
5506.30.00	00	2	Acrylic or modacrylic	kg	6.5%	2.6% (IL) 5.8% (CA)	51.5%
5506.90.00	00	9	Other	kg	6.5%	2.6% (IL) 5.8% (CA)	51.5%
5507.00.00	00	7	Artificial staple fibers, carded, combed or otherwise processed for spinning	kg	6.5%	2.6% (IL) 5.8% (CA)	51.5%
5508			Sewing thread of man-made staple fibers, whether or not put up for retail sale:				
5508.10.00	00	4	Of synthetic staple fibers (200)	kg	13%	5.2% (IL) 11.7% (CA)	55%
5508.20.00	00	2	Of artificial staple fibers (200)	kg	13%	5.2% (IL) 11.7% (CA)	55%

HARMONIZED TARIFF SCHEDULE of the United States
Annotated for Statistical Reporting Purposes

Heading/ Subheading	Stat. Suf. & cd		Article Description		Units of Quantity	Rates of Duty 1 General	1 Special	2
5509			Yarn (other than sewing thread) of synthetic staple fibers, not put up for retail sale:					
			Containing 85 percent or more by weight of staple fibers of nylon or other polyamides:					
5509.11.00	00	2	Single yarn	(604)	kg	11%	Free (IL) 9.9% (CA)	54%
5509.12.00	00	1	Multiple (folded) or cabled yarn	(604)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
			Containing 85 percent or more by weight of polyester staple fibers:					
5509.21.00	00	0	Single yarn	(604)	kg	11%	Free (IL) 9.9% (CA)	54%
5509.22.00			Multiple (folded) or cabled yarn			12%	4.8% (IL) 10.8% (CA)	61.5%
	10	7	Multiple (folded), with a final "Z" twist	(200)	kg			
	90	0	Other	(604)	kg			
			Containing 85 percent or more by weight of acrylic or modacrylic staple fibers:					
5509.31.00	00	8	Single yarn	(604)	kg	11%	Free (IL) 9.9% (CA)	54%
5509.32.00	00	7	Multiple (folded) or cabled yarn	(604)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
			Other yarn, containing 85 percent or more by weight of synthetic staple fibers:					
5509.41.00	00	6	Single yarn	(604)	kg	11%	Free (IL) 9.9% (CA)	54%
5509.42.00	00	5	Multiple (folded) or cabled yarn	(604)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
			Other yarn, of polyester staple fibers:					
5509.51			Mixed mainly or solely with artificial staple fibers:					
5509.51.30	00	7	Single yarn	(607)	kg	11%	Free (IL) 9.9% (CA)	54%
5509.51.60	00	0	Multiple (folded) or cabled yarn	(607)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
5509.52.00	00	2	Mixed mainly or solely with wool or fine animal hair	(607)	kg	[illegible]%	6% (IL) 13.5% (CA)	81%
5509.53.00			Mixed mainly or solely with cotton			15%	6% (IL) 13.5% (CA)	81%
	30	5	Not exceeding 52 mm	(607)	kg			
	60	8	Exceeding 52 mm	(607)	kg			
5509.59.00	00	5	Other	(607)	kg	15%	6% (IL) 13.5% (CA)	81%
			Other yarn, of acrylic or modacrylic staple fibers:					
5509.61.00	00	1	Mixed mainly or solely with wool or fine animal hair	(607)	kg	15%	6% (IL) 13.5% (CA)	81%
5509.62.00	00	0	Mixed mainly or solely with cotton	(607)	kg	15%	6% (IL) 13.5% (CA)	81%
5509.69			Other:					
			Mixed mainly or solely with artificial staple fibers:					
5509.69.20	00	9	Single yarn	(607)	kg	11%	Free (IL) 9.9% (CA)	54%
5509.69.40	00	5	Multiple (folded) or cabled yarn	(607)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
5509.69.60	00	0	Other	(607)	kg	15%	6% (IL) 13.5% (CA)	81%

HARMONIZED TARIFF SCHEDULE of the United States
Annotated for Statistical Reporting Purposes

Heading/ Subheading	Stat. Suf. & cd		Article Description	Units of Quantity	Rates of Duty 1 General	Special	2
5509 (con.)			Yarn (other than sewing thread) of synthetic staple fibers, not put up for retail sale (con.):				
			Other yarn:				
5509.91.00	00	5	Mixed mainly or solely with wool or fine animal hair (607)	kg	15%	6% (IL) 13.5% (CA)	81%
5509.92.00	00	4	Mixed mainly or solely with cotton (607)	kg	15%	6% (IL) 13.5% (CA)	81%
5509.99			Other:				
			Mixed mainly or solely with artificial staple fibers:				
5509.99.20	00	3	Single yarn (607)	kg	11%	4.4% (IL) 9.9% (CA)	54%
5509.99.40	00	9	Multiple (folded) or cabled yarn (607)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
5509.99.60	00	4	Other (607)	kg	15%	6% (IL) 13.5% (CA)	81%
5510			Yarn (other than sewing thread) of artificial staple fibers, not put up for retail sale:				
			Containing 85 percent or more by weight of artificial staple fibers:				
5510.11.00	00	9	Single yarn (603)	kg	11%	Free (IL) 9.9% (CA)	54%
5510.12.00	00	8	Multiple (folded) or cabled yarn (603)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
5510.20.00	00	8	Other yarn, mixed mainly or solely with wool or fine animal hair (607)	kg	15%	6% (IL) 13.5% (CA)	81%
5510.30.00	00	6	Other yarn, mixed mainly or solely with cotton (607)	kg	15%	6% (IL) 13.5% (CA)	81%
5510.90			Other yarn:				
			Mixed mainly or solely with synthetic staple fibers:				
5510.90.20	00	9	Single yarn (607)	kg	11%	Free (IL) 9.9% (CA)	54%
5510.90.40	00	5	Multiple (folded) or cabled yarn (607)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
5510.90.60	00	0	Other (607)	kg	15%	6% (IL) 13.5% (CA)	81%
5511			Yarn (other than sewing thread) of man-made staple fibers, put up for retail sale:				
5511.10.00			Of synthetic staple fibers, containing 85 percent or more by weight of such fibers		13%	Free (IL) 11.7% (CA)	55%
	30	3	Acrylic or modacrylic (200)	kg			
	60	6	Other (200)	kg			
5511.20.00	00	7	Of synthetic staple fibers, containing less than 85 percent or more by weight of such fibers (200)	kg	13%	Free (IL) 11.7% (CA)	55%
5511.30.00	00	5	Of artificial staple fibers (200)	kg	13%	Free (IL) 11.7% (CA)	55%

TABLE 5:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1989												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
	MANUFACTURED FIBER TOTAL SHIPMENTS[b c]													
CELLULOSIC														
YARN	17.3	17.0	18.4										52.7	50.1
RAYON STAPLE	34.5	32.1	36.5										103.1	107.0
TOTAL CELLULOSIC	51.8	49.1	54.9										155.8	157.1
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON INDUSTRIAL[d]	31.3	30.5	32.2										94.0	94.4
CARPET	74.7	77.0	82.4										234.1	237.9
TEXTILE[f]	34.0	33.2	34.8										102.0	95.1
POLYESTER INDUSTRIAL[d]	28.6	28.7	30.4										87.7	86.5
TEXTILE[f]	72.5	71.1	75.0										218.6	199.0
OLEFIN[e]	98.5	97.4	94.2										290.1	301.0
TOTAL YARN	339.6	337.9	349.0										1026.5	1013.9
STAPLE+TOW+FIBERFILL														
NYLON	82.3	78.4	88.7										249.4	243.7
ACRYLIC+MODACRYLIC	41.7	46.2	48.8										136.7	156.7
POLYESTER	200.5	192.1	217.3										609.9	586.1
OLEFIN	31.0	31.7	31.4										94.1	89.4
TOTAL STAPLE	355.5	348.4	386.2										1090.1	1075.9
TOTAL NONCELLULOSIC	695.1	686.3	735.2										2116.6	2089.8
TOTAL MANUFACTURED FIBER	746.9	735.4	790.1										2272.4	2246.9
	MANUFACTURED FIBER END-OF-MONTH STOCK													
CELLULOSIC														
YARN	11.7	10.9	11.3										11.3	13.2
RAYON STAPLE	13.0	13.2	11.7										11.7	20.3
TOTAL CELLULOSIC	24.7	24.1	23.0										23.0	33.5
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON INDUSTRIAL[d]	24.4	24.7	22.4										22.4	23.5
CARPET	63.5	63.3	62.8										62.8	67.0
TEXTILE[f]	47.1	48.2	46.4										46.4	50.0
POLYESTER INDUSTRIAL[d]	35.0	31.4	30.5										30.5	28.8
TEXTILE[f]	73.6	76.9	83.1										83.1	79.5
OLEFIN[e]	53.0	54.1	55.5										55.5	53.5
TOTAL YARN	296.6	298.6	300.7										300.7	302.3
STAPLE+TOW+FIBERFILL														
NYLON	51.8	53.0	50.9										50.9	57.5
ACRYLIC+MODACRYLIC	70.6	68.3	68.3										68.3	55.4
POLYESTER	163.5	163.8	161.0										161.0	157.8
OLEFIN	31.0	31.4	32.9										32.9	35.0
TOTAL STAPLE	316.9	316.5	313.1										313.1	305.7
TOTAL NONCELLULOSIC	613.5	615.1	613.8										613.8	608.0
TOTAL MANUFACTURED FIBER	638.2	639.2	636.8										636.8	641.5
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	11.8												11.8	12.9
CARPET CLASS WOOL	0.8												0.8	1.4
TOTAL RAW WOOL	12.6												12.6	14.3
RAW COTTON	288.2												288.2	300.0

a. "Year to date" totals for stock are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

C3460-1

FIBER ORGANON

Formerly Textile Organon
Volume 60, No. 5 ☐ May 1989
A publication of *Fiber Economics Bureau, Inc.*

Highlights

- 1988 Per Capita Consumption Review... begins on page 83.
- May 1989 Capacity Survey Analysis... begins on page 88.
- Canadian Mill Consumption... begins on page 91.

SHIPMENTS:

In April, total manufactured fiber shipments reached 776 million pounds, 3% below the 797 million pounds shipped in March and 1% above the 766 million pounds shipped in April 1988.

April shipments of noncellulosic filament yarn fell 1% to 351 million pounds and staple+tow fell 4% to 371 million pounds.

Contributing to the decrease in shipments over the previous month were nylon staple down 14% or 13 million pounds and nylon carpet yarn down 4 million pounds or 6%.

Year-to-date domestic shipments of manufactured fiber are up 2% and exports are down 9%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1989 APR	1989 MAR	% CHG 4/89-3/89	1988 APR	% CHG 4/89-4/88	YEAR TO DATE 1989	YEAR TO DATE 1988	% CHG YTD 1989-1988
CELLULOSIC								
YARN	21.5	18.4	*+16.8*	19.4	*+10.8*	74.3	69.3	*+7.2*
RAYON STAPLE	32.1	36.5	*-12.1*	35.5	*-9.6*	135.2	142.6	*-5.2*
TOTAL CELLULOSIC	**53.6**	**54.9**	***-2.4***	**54.9**	***-2.4***	**209.5**	**211.9**	***-1.1***
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	32.3	32.5	*-0.6*	32.2	*+0.3*	126.6	126.7	*-0.1*
CARPET	77.5	82.0	*-5.5*	80.7	*-4.0*	311.6	318.5	*-2.2*
- TEXTILE [a]	34.6	35.0	*-1.1*	31.7	*+9.1*	136.7	126.9	*+7.7*
POLYESTER - INDUSTRIAL	32.2	30.9	*+4.2*	31.3	*+2.9*	121.4	117.9	*+3.0*
- TEXTILE [a]	78.2	74.9	*+4.4*	74.3	*+5.2*	296.9	273.3	*+8.6*
OLEFIN	96.6	100.8	*-4.2*	102.7	*-5.9*	401.4	403.7	*-0.6*
TOTAL YARN	**351.4**	**356.1**	***-1.3***	**352.9**	***-0.4***	**1394.6**	**1367.0**	***+2.0***
STAPLE+TOW+FIBERFILL								
NYLON	76.4	88.8	*-14.0*	71.0	*+7.6*	325.9	314.8	*+3.5*
ACRYLIC+MODACRYLIC	49.2	48.6	*+1.2*	45.4	*+8.4*	185.7	202.1	*-8.1*
POLYESTER	213.7	216.8	*-1.4*	212.1	*+0.8*	823.9	798.4	*+3.2*
OLEFIN	31.4	32.0	*-1.9*	29.8	*+5.4*	126.0	119.2	*+5.7*
TOTAL STAPLE	**370.7**	**386.2**	***-4.0***	**358.3**	***+3.5***	**1461.5**	**1434.5**	***+1.9***
TOTAL NONCELLULOSIC	**722.1**	**742.3**	***-2.7***	**711.2**	***+1.5***	**2856.1**	**2801.5**	***+1.9***
TOTAL MANUFACTURED FIBER	**775.7**	**797.2**	***-2.7***	**766.1**	***+1.3***	**3065.6**	**3013.4**	***+1.7***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS [b]	731.8	750.8	*-2.5*	721.3	*+1.5*	2887.0	2816.2	*+2.5*
EXPORTS [c]	43.9	46.4	*-5.4*	44.8	*-2.0*	178.6	197.2	*-9.4*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

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A Monthly Review
Formerly ***Textile Organon***

May 1989

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1988 PER CAPITA CONSUMPTION REVIEW

Per capita consumption of all fibers fell to 65.6 pounds in 1988, 5.2% below the 69.2 pounds recorded in 1987.

In 1988, per capita GNP grew 3% over 1987, while per capita manufactured fiber consumption fell 1%, cotton per capita consumption decreased 11%, wool fell 11.8%, and other fibers (silk, linen, jute and sisal & other) fell 16%.

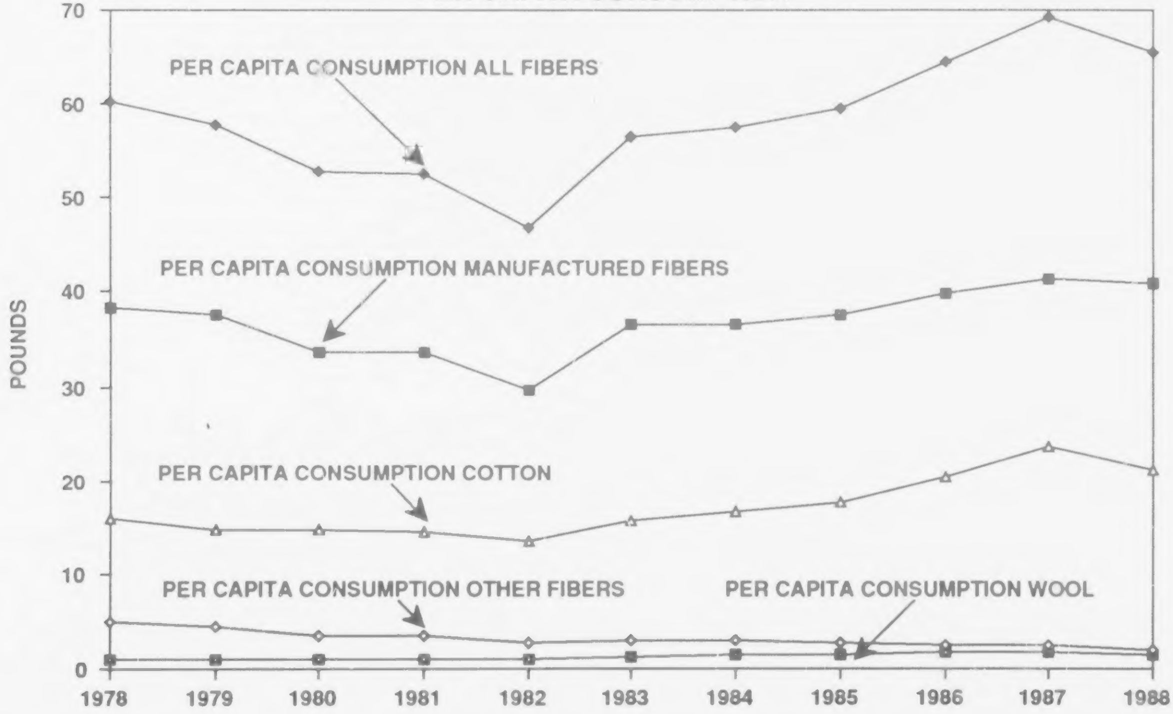
Since 1978, the U.S. population has grown 10.5%. At the same time, the per capita GNP has increased 16% (in constant 1982 dollars), while per capita consumption of all fibers rose 9%, manufactured fiber per capita consumption increased 6.5%, wool rose 50%, and other fibers (silk, linen, jute and sisal & others) fell 57.1% (see Table 6).

TABLE & GRAPH SUMMARY

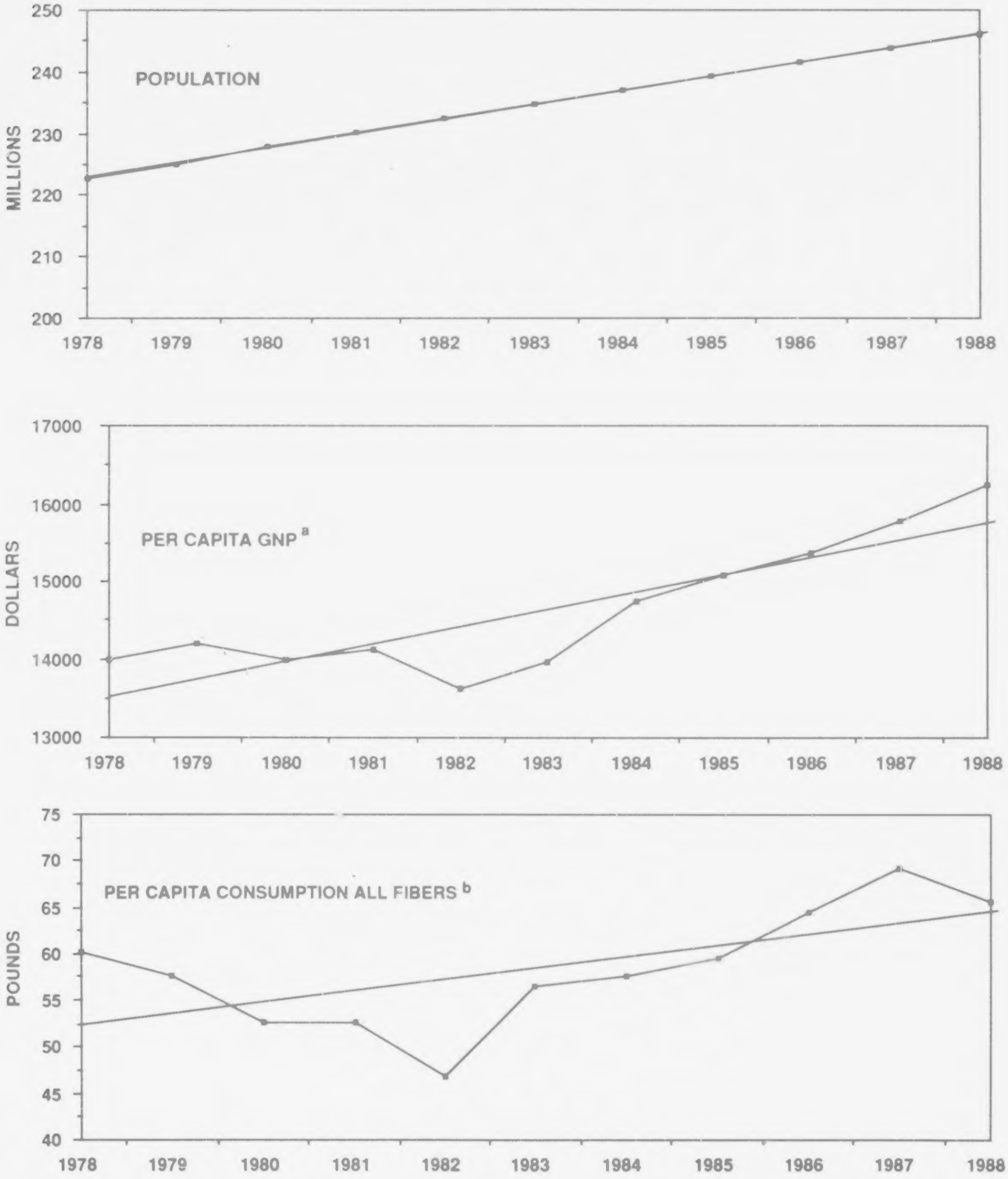
The tables and graphs contained in this review are described as follows:

Table 2:	Per capita GNP derived by dividing the annual Gross National Product data by the population July 1st.
Table 3:	Total U.S. domestic fiber consumption from the April Fiber Organon, page 71.
Table 4:	Domestic consumption data in Table 3 divided by July 1st population data.
Table 5:	Summary of total mill consumption of all fibers, except glass fiber.
Table 6:	Percentage change and relative growth over time of population, per capita GNP and per capita consumption of the various fibers.
Table 7:	Summary of the raw fiber equivalent of the U.S. imports of semimanufactured and manufactured products.
Table 8:	Listing of imports in per capita terms and their percentage growth over time for comparison with overall per capita domestic consumption.
Graph 1:	Per capita consumption of all fibers, based on the data in Table 4.
Graph 2:	Growth in the population and trends in per capita GNP and per capita consumption of all fibers, as shown in Tables 2 and 4.

GRAPH 1: PER CAPITA CONSUMPTION



GRAPH 2:
COMPARISON OF POPULATION, GNP & PER CAPITA CONSUMPTION OF ALL FIBERS



a. In 1982 dollars.

b. Data on Glass Fiber are no longer available to prevent company level disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 2:
U.S. POPULATION, GROSS NATIONAL PRODUCT & PER CAPITA GROSS NATIONAL PRODUCT

YEAR	POPULATION [a]	GNP [b]	PER CAPITA GNP [c]
1978	222.6	3115.2	13995
1979	225.1	3192.4	14182
1980	227.8	3187.1	13991
1981	230.1	3248.8	14119
1982	232.5	3166.0	13617
1983	234.8	3275.2	13949
1984	237.0	3492.0	14734
1985	239.3	3607.5	15075
1986	241.6	3713.3	15370
1987	243.9	3847.0	15773
1988	246.0	3995.0	16240

SOURCE: Current Population Reports, U.S. Dept. of Commerce Bureau of the Census.
Survey of Current Business, U.S. Dept. of Commerce Bureau of Economic Analysis.

a. In millions. Population data for all years have been changed to that of July 1.

b. In billions of 1982 dollars

c. In dollars

TABLE 3:
U.S. TOTAL FIBER CONSUMPTION
MILLION POUNDS

YEAR	MFRD. FIBER [a]	COTTON	WOOL	OTHER FIBERS	TOTAL
1978	8541.9	3530.1	222.2	1086.1	13380.3
1979	8451.8	3334.5	201.0	1021.9	13009.2
1980	7654.8	3352.2	199.1	807.0	12013.1
1981	7722.9	3325.4	234.0	794.7	12077.0
1982	6912.9	3122.7	218.8	648.4	10902.8
1983	8603.2	3711.5	300.7	690.3	13305.7
1984	8644.2	3929.2	361.4	680.1	13614.9
1985	9027.4	4212.0	381.7	646.9	14268.0
1986	9637.6	4937.4	424.1	582.4	15581.5
1987	10075.2	5774.2	404.6	603.5	16857.5
1988	10062.6	5189.6	367.9	511.0	16131.1

a. Excludes Glass Fiber. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 4:
U.S. PER CAPITA FIBER CONSUMPTION [a]
POUNDS

		PER CAPITA				
PERIOD	POPULATION	MFRD. FIBER [b]	COTTON	WOOL	OTHER FIBERS	TOTAL
1978	222.6	38.4	15.9	1.0	4.9	60.2
1979	225.1	37.5	14.8	0.9	4.5	57.7
1980	227.8	33.6	14.7	0.9	3.5	52.7
1981	230.1	33.6	14.5	1.0	3.5	52.6
1982	232.5	29.7	13.4	0.9	2.8	46.8
1983	234.8	36.6	15.8	1.3	2.9	56.6
1984	237.0	36.5	16.6	1.5	2.9	57.5
1985	239.3	37.7	17.6	1.6	2.7	59.6
1986	241.6	39.9	20.4	1.8	2.4	64.5
1987	243.9	41.3	23.7	1.7	2.5	69.2
1988	246.0	40.9	21.1	1.5	2.1	65.6

a. Based on total U.S. domestic consumption (mill consumption plus imports less exports of semimanufactured and manufactured products).

b. Excludes Glass Fiber. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 5:
MILL CONSUMPTION BY FIBER
BILLION POUNDS

YEAR	RAYON	ACETATE[a]	NYLON[b]	POLYESTER	ACRYLIC[c]	OLEFIN	COTTON	WOOL	OTHER FIBERS	TOTAL
1978	0.6	0.3	2.5	3.7	0.6	0.7	3.0	0.1	0.2	11.7
1979	0.5	0.3	2.7	3.7	0.6	0.7	3.1	0.1	0.2	11.9
1980	0.5	0.3	2.3	3.5	0.6	0.7	3.1	0.1	0.1	11.2
1981	0.5	0.2	2.2	3.5	0.5	0.8	2.7	0.2	0.1	10.7
1982	0.3	0.2	1.9	3.0	0.5	0.8	2.5	0.1	0.1	9.4
1983	0.4	0.2	2.4	3.4	0.5	1.0	2.8	0.2	0.1	11.0
1984	0.4	0.2	2.4	3.2	0.5	1.0	2.7	0.2	0.1	10.7
1985	0.5[d]		2.5	3.1	0.5	1.3	2.8	0.2	0.1	11.0
1986	0.6[d]		2.5	3.2	0.6	1.5	3.3	0.2	0.1	12.0
1987	0.6[d]		2.7	3.5	0.5	1.6	3.7	0.2	0.1	12.9
1988	0.6[d]		2.7	3.6	0.5	1.6	3.4	0.2	0.1	12.7

NOTE: Data on Glass Fiber are no longer available due to company disclosure The series including Glass Fiber was last published in the May 1985 issue

a. Includes triacetate Cigarette tow is excluded

b. Includes Aramid for all years except 1983-1988

c. Includes modacrylic

d. Rayon and acetate combined

TABLE 6:
PERCENT ANALYSIS OF POPULATION, PER CAPITA GNP AND PER CAPITA CONSUMPTION OF MANUFACTURED FIBER, COTTON, WOOL & OTHER FIBERS

							PER CAPITA CONSUMPTION														
YEAR	POPULATION	%[a]	%[b]	PER CAPITA GNP	%[a]	%[b]	MANUFAC. FIBER[c]	%[a]	%[b]	COTTON	%[a]	%[b]	WOOL	%[a]	%[b]	OTHER FIBERS	%[a]	%[b]	ALL FIBERS	%[a]	%[b]
1978	222.6	- -	- -	13995	-	- -	38.4	- -	-	15.9	-	-	1.0	- -	-	4.9	- -	- -	60.2		-
1979	225.1	+1.1	+1.1	14182	+1.3	+1.3	37.5	-2.3	-2.3	14.8	-6.9	-6.9	0.9	-10.0	-10.0	4.5	-8.2	-8.2	57.7	-4.2	-4.2
1980	227.8	+1.2	+2.3	13991	-1.3	- -	33.6	-10.4	-12.5	14.7	-0.7	-7.5	0.9		-10.0	3.5	-22.2	-28.6	52.7	-8.7	-12.5
1981	230.1	+1.0	+3.4	14119	+0.9	+0.9	33.6	- -	-12.5	14.5	-1.4	-8.8	1.0	+11.1	-	3.5	0.0	-28.6	52.6	-0.2	-12.6
1982	232.5	+1.0	+4.4	13617	-3.6	-2.7	29.7	-11.6	-22.7	13.4	-7.6	-15.7	0.9	-10.0	-10.0	2.8	-20.0	-42.9	46.8	-11.0	-22.3
1983	234.8	+1.0	+5.5	13949	+2.4	-0.3	36.6	+23.2	-4.7	15.8	+17.9	-0.6	1.3	+44.4	+30.0	2.9	+3.6	-40.8	56.6	+20.9	-6.0
1984	237.0	+0.9	+6.5	14734	+5.6	+5.3	36.5	-0.3	-4.9	16.6	+5.1	+4.4	1.5	+15.4	+50.0	2.9	0.0	-40.8	57.5	+1.6	-4.5
1985	239.3	+1.0	+7.5	15075	+2.3	+7.7	37.7	+3.3	-1.8	17.6	+6.0	+10.7	1.6	+6.7	+60.0	2.7	-6.9	-44.9	59.6	+3.7	-1.0
1986	241.6	+1.0	+8.5	15370	+2.0	+9.8	39.9	+5.8	+3.9	20.4	+15.9	+28.3	1.8	+12.5	+80.0	2.4	-11.1	-51.0	64.5	+8.2	+7.1
1987	243.9	+1.0	+9.6	15773	+2.6	+12.7	41.3	+3.5	+7.6	23.7	+16.2	+49.1	1.7	-5.6	+70.0	2.5	+4.2	-49.0	69.2	+7.3	+15.0
1988	246.0	+0.9	+10.5	16240	+3.0	+16.0	40.9	-1.0	+6.5	21.1	-11.0	+32.7	1.5	-11.8	+50.0	2.1	-16.0	-57.1	65.6	-5.2	+9.0

Population is in millions of people
Per Capita GNP is 1982 dollars
All other Per Capita Consumption data are in pounds
All data are taken from the tables on page 85

a. Percent change year to year

b. Percent change since 1978

c. Excludes Glass Fiber Data on Glass Fiber are no longer available due to company disclosure The series including Glass Fiber was last published in the May 1985 issue

TABLE 7:
RAW FIBER EQULIVALENT OF IMPORTS OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES
MILLION POUNDS

	MANUFACTURED FIBER						COTTON						WOOL					
	1983	1984	1985	1986	1987	1988	1983	1984	1985	1986	1987	1988	1983	1984	1985	1986	1987	1988
IMPORTS																		
SEMIMANUFACTURED PRODUCTS																		
YARN, THREAD, ETC	58.0	71.0	74.7	96.3	91.9	67.6	42.1	54.6	56.3	105.9	134.5	95.5	7.6	16.3	14.1	13.7	14.6	13.1
CLOTH	138.0	170.4	129.1	245.0	211.7	205.7	346.3	450.8	421.2	532.9	649.9	466.4	28.1	39.0	36.4	25.9	29.5	29.9
SUBTOTAL	**196.0**	**241.4**	**203.8**	**341.3**	**303.6**	**273.3**	**388.4**	**505.4**	**477.5**	**638.8**	**784.4**	**561.9**	**35.7**	**55.3**	**50.5**	**39.6**	**44.1**	**43.0**
MANUFACTURED PRODUCTS																		
WEARING APPAREL	576.0	688.9	798.1	929.4	1033.6	991.7	622.8	759.5	895.5	1016.0	1265.6	1254.4	58.8	80.8	137.0	155.6	158.9	144.3
INDUSTRIAL	1.3	0.4	0.9	2.7	5.6	11.6	14.3	37.6	32.4	46.4	53.2	51.4	NOMINAL QUANTITIES INCLUDED IN OTHER					
HOME FURNISHINGS }	296.1	411.3	394.2	429.2	462.6	459.1	78.0	138.9	169.7	182.9	205.2	218.7	34.8	52.1	60.8	62.9	53.1	41.2
ALL OTHER							31.9	23.4	38.6	26.4	27.3	32.4	2.6	1.2	0.6	2.4	2.2	13.9
SUBTOTAL	**873.4**	**1100.6**	**1193.2**	**1361.3**	**1501.8**	**1462.4**	**747.0**	**959.4**	**1136.2**	**1271.7**	**1551.3**	**1556.9**	**96.2**	**134.1**	**198.4**	**220.9**	**214.2**	**199.4**
TOTAL IMPORTS	**1069.4**	**1342.0**	**1397.0**	**1702.6**	**1805.4**	**1735.7**	**1135.4**	**1464.8**	**1613.7**	**1910.5**	**2335.7**	**2118.8**	**131.9**	**189.4**	**248.9**	**260.5**	**258.3**	**242.4**

All of this data has been taken from the March 1989 *Textile Organon* issue, page 54

TABLE 8:
PER CAPITA CONSUMPTION OF IMPORTS OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES COMPARED WITH PER CAPITA TOTAL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL
POUNDS & *PERCENT*

	IMPORTS															DOMESTIC FIBER CONSUMPTION					
	MANUFACTURED FIBER					COTTON					WOOL										
YEAR	TOTAL	%[a]	APPAREL	%[a]	%[b]	TOTAL	%[a]	APPAREL	%[a]	%[b]	TOTAL	%[a]	APPAREL	%[a]	%[b]	MANUFACTURED FIBER[c]	%[a]	COTTON	%[a]	WOOL	%[a]
1980	2.4		1.7		*70.8*	3.6		2.0		*55.6*	0.4		0.2		*50.0*	33.6		14.7		0.9	
1981	2.8	*+16.7*	1.9	*+11.8*	*67.9*	4.2	*+16.7*	2.2	*+10.0*	*52.4*	0.4	--	0.2	--	*50.0*	33.6		14.5	*-1.4*	1.0	*+11.1*
1982	3.0	*+7.1*	2.1	*+10.5*	*70.0*	3.9	*-7.1*	2.2	--	*56.4*	0.4	--	0.2	--	*50.0*	29.7	*-11.6*	13.4	*-7.6*	0.9	*-10.0*
1983	4.6	*+53.3*	2.5	*+19.0*	*54.3*	4.8	*+23.1*	2.7	*+22.7*	*56.3*	0.6	*+50.0*	0.3	*+50.0*	*50.0*	36.6	*+23.2*	15.8	*+17.9*	1.3	*+44.4*
1984	5.7	*+23.9*	2.9	*+16.0*	*50.9*	6.2	*+29.2*	3.2	*+18.5*	*51.6*	0.8	*+33.3*	0.3	--	*37.5*	36.5	*-0.3*	16.6	*+5.1*	1.5	*+15.4*
1985	5.8	*+1.8*	3.3	*+13.8*	*56.9*	6.7	*+8.1*	3.7	*+15.6*	*55.2*	1.0	*+25.0*	0.6	*+100.0*	*60.0*	37.7	*+3.3*	17.6	*+6.0*	1.6	*+6.7*
1986	7.0	*+20.7*	3.8	*+15.2*	*54.3*	7.9	*+17.9*	4.2	*+13.5*	*53.2*	1.1	*+10.0*	0.6	--	*54.5*	39.9	*+5.8*	20.4	*+15.9*	1.8	*+12.5*
1987	7.4	*+5.7*	4.2	*+10.5*	*56.8*	9.6	*+21.5*	5.2	*+23.8*	*54.2*	1.1	--	0.7	*+16.7*	*63.6*	41.3	*+3.5*	23.7	*+16.2*	1.7	*-5.6*
1988	7.1	*-4.1*	4.0	*-4.8*	*56.3*	8.6	*-10.4*	5.1	*-1.9*	*59.3*	1.0	*-9.1*	0.6	*-14.3*	*60.0*	40.9	*-1.0*	21.1	*-11.0*	1.5	*-11.8*

a. Percent change from previous year

b. Apparel as percent of total imports of semimanufactured and manufactured products

c. Excludes Glass Fiber. Data on Glass Fiber is no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue

MAY 1989 CAPACITY SURVEY ANALYSIS

U.S. Manufactured Fiber Capacity Utilization at 90%

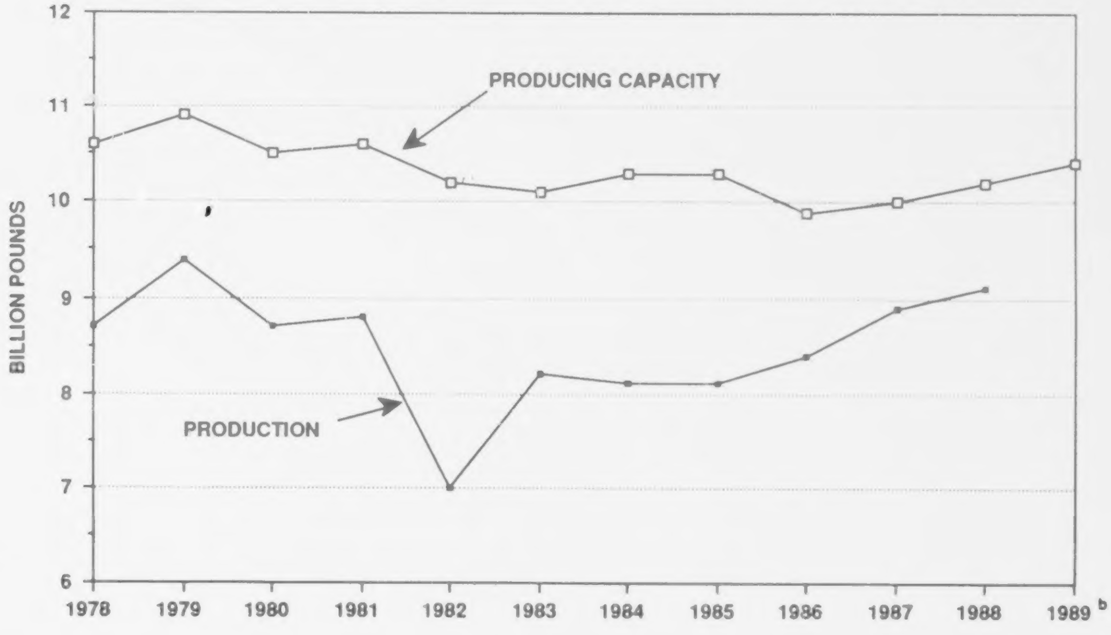
Based on yearly January - April production data and May 1989 Capacity Survey results, the capacity utilzation rate for the U.S. manufactured fiber industry stood at 90% as compared to 89% in 1988 (Graph 3).

Total industry capacity (excluding glass fiber) rose to 10,402 million pounds, 2% above the 10,244 million pounds recorded in the November 1988 Survey.

Since November 1988, the noncellulosic filament yarn capacity rose from 4,742 million pounds to 4,790 million pounds, with a 4% gain in nylon carpet yarn.

In 1989, capacity for noncellulosic staple+tow increased 2% to 4,892 million pounds, the highest level since November 1985, when capacity stood at 4,890 million pounds (Table 10). A major increase was shown in polyester staple+tow where the capacity rose from 2,524 million pounds in November 1988 to 2,619 million pounds in May 1989.

GRAPH 3:
MANUFACTURED FIBER INDUSTRY PRODUCTION & PRODUCING CAPACITY [a]



a. Cellulosic and noncellunosic fiber excluding glass fiber.
b. Based on May 1989 capacity survey.

TABLE 9:
U.S. MANUFACTURED FIBER PRODUCTION & PRODUCING CAPACITY
MILLION POUNDS

	CELLULOSIC FIBERS							NONCELLULOSIC FIBERS [a]			GRAND TOTAL MANUFACTURED FIBERS EXCLUDING GLASS FIBER			NON-ADD GLASS FIBER [d]
	FILAMENT YARN+MONOFIL			STAPLE+TOW										
PERIOD	RAYON	ACETATE [b]	TOTAL	RAYON	ACETATE [b]	TOTAL	TOTAL	YARN +MONO	STAPLE +TOW	TOTAL	YARN +MONO [c]	STAPLE +TOW	TOTAL	
ACTUAL ANNUAL PRODUCTION														
1977	71	282	353	527	8	535	888	3674	3654	7328	4027	4189	8216	787
1978	62	301	363	535	7	542	905	3830	3953	7783	4193	4495	8688	923
1979	57	317	374	549	7	556	930	4155	4282	8437	4529	4838	9367	1014
1980	47	309	356	443	7	450	806	3744	4148	7892	4100	4598	8698	867
1981	48	257	305	461	4	465	770	3815	4191	8006	4120	4656	8776	1041
1982	33	195	228	355	1	356	584	3057	3403	6460	3285	3759	7044	899
1983	36	228	264	375	1	376	640	3568	3970	7538	3832	4346	8178	1169
1984	41	198	239	389	-	389	628	3525	3947	7472	3764	4336	8100	1394
1985			205 g			353 g	558	3790	3773	7563	3995	4126	8121	NA
1986			215 g			404 g	619	3836	3992	7828	4051	4396	8447	NA
1987			191 g			414 g	605	4010	4306	8316	4201	4720	8921	NA
1988			214 g			400 g	614	4160	4346	8506	4374	4746	9120	NA
ACTUAL & PROJECTED CAPACITY, ANNUAL RATE, AS OF -														
NOV 1977 e	85	315	400	655	8	663	1063	4958	4394	9352	5358	5057	10415	1002
NOV 1978 e	83	330	413	665	8	673	1086	4984	4571	9555	5397	5244	10641	1118
NOV 1979 e	75	355	430	671	8	679	1109	5106	4678	9784	5536	5357	10893	1305
NOV 1980 e	63	324	387	514	8	522	909	4913	4714	9627	5300	5236	10536	1473
NOV 1981 e	52	332	384	509	5	514	898	4746	4950	9696	5130	5464	10594	1561
NOV 1982 e	63	318	381	510	4	514	895	4553	4781	9334	4934	5295	10229	1718
NOV 1983 e	63	268	331	510	4	514	845	4447	4827	9274	4778	5341	10119	1618
NOV 1984 e	63	268	331	510	4	514	845	4479	4981	9460	4810	5495	10305	1743
NOV 1985 e			269 g	510	5	515	784	4668	4890	9558	4937	5405	10342	1769
NOV 1986 e			244 g			465 g	709	4545	4662	9207	4789	5127	9916	1763
NOV 1987 e			244 g			465 g	709	4557	4793	9350	4801	5258	10059	1642
NOV 1988 e			244 g			469 g	713	4742	4789	9531	4986	5258	10244	1729
MAY 1989 e			244 g			476 g	720	4790	4892	9682	5034	5368	10402	1778
NOV 1989 f			249 g			493 g	742	4872	4903	9775	5121	5396	10517	1785
MAY 1990 f			254 g			493 g	747	4901	4720	9621	5155	5213	10368	1859
NOV 1990 f			254 g			493 g	747	4965	4745	9710	5219	5238	10457	1929
MAY 1991 f			254 g			493 g	747	5018	4787	9805	5272	5280	10552	2009

NA No longer available

a. Included are those listed in the November ***Textile Organon*** issue, with the exception of Aramid fiber as of November 1983. Yarn+mono includes olefin film fiber and spunbonded polypropylene. Staple+tow includes fiberfill

b. Data include diacetate and triacetate. The acetate staple+tow data do not include the large poundages for cigarette filtration

c. Grand Total Yarn means the yarn+mono shown, excluding glass fiber

d. Glass fiber, all types

e. Actual producing capacity as of the date shown

f. Future producing capacity planned for certain dates as of NOV 1989

g. Detail withheld due to disclosure of company data

TABLE 10:
NONCELLULOSIC FIBER CAPACITY DETAIL
MILLION POUNDS & *AVERAGE DENIER*

PERIOD	FILAMENT YARN, MONOFIL & OLEFIN FILM FIBER											STAPLE, TOW & FIBERFILL					NON-CELLU-LOSIC TOTAL
	NYLON+ARAMID				POLYESTER			OLEFIN [a]			TOTAL	NYLON + ARAMID	ACRYL +MOD ACRYL	POLY-ESTER	OLEFIN + VINYON [e]	TOTAL	
	IND	CARP	TEXTILE		IND	TEXTILE		YARN	MONO [b]	FILM [b]							
			LBS	DEN		LBS	DEN										
NOV 1977 c	523	829	558	*55*	443	1698	*126*	173	336	398	4958	939	869	2470	116	4394	9352
NOV 1978 c	510	908	565	*53*	443	1643	*116*	174	347	394	4984	1023	865	2554	129	4571	9555
NOV 1979 c	513	950	579	*51*	443	1699	*114*	172	342	408	5106	1020	839	2673	146	4678	9784
NOV 1980 c	515	910	551	*52*	400	1637	*113*	120	350	430	4913	991	830	2759	134	4714	9627
NOV 1981 c	514	893	553	*49*	316	1481	*114*	178	356	455	4746	1010	835	2839	266	4950	9696
NOV 1982 c	474	925	513	*53*	338	1265	*119*	209	369	460	4553	978	832	2700	271	4781	9334
NOV 1983 c	440	907	494	*52*	337	1170	*122*	240	375	484	4447	1017	826	2704	280	4827	9274
NOV 1984 c	437	926	470	*57*	342	1162	*121*	270	386	486	4479	1054	807	2784	336	4981	9460
NOV 1985 c	437	965	466	*53*	374	1097	*126*	304	412	613	4668	1067	631	2785	407	4890	9558
NOV 1986 c	435	964	398	*51*	401	1021	*123*	286	407	633	4545	1077	637	2491	457	4662	9207
NOV 1987 c	418	1005	404	*49*	399	929	*121*	342	393	667	4557	1137	652	2522	482	4793	9350
NOV 1988 c	421	1053	423	*49*	408	968	*121*	391	399	679	4742	1137	642	2524	486	4789	9531
MAY 1989 c	420	1094	421	*48*	411	964	*107*	397	403	680	4790	1145	642	2619	486	4892	9682
NOV 1989 d	420	1152	429	*48*	421	925	*108*	436	403	686	4872	1150	642	2619	492	4903	9775
MAY 1990 d	420	1167	434	*48*	422	894	*109*	467	405	692	4901	1157	647	2423	493	4720	9621
NOV 1990 d	420	1177	439	*48*	437	894	*109*	478	427	693	4965	1157	647	2423	518	4745	9710
MAY 1991 d	420	1187	444	*48*	437	894	*109*	509	434	693	5018	1157	647	2435	548	4787	9805

NOTE: As of the November 1983 survey, nylon capacity data no longer include Aramid Fiber

IND Industrial yarn and monofil, i.e., 500 denier & coarser, with an Instron tenacity of 7 grams per denier or more.

CARP Bulked continuous filament yarn for carpets

TEXTILE Yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

a. Includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles, film fiber used for decorative or tying ribbons, etc.

b. Includes the circular and rectangular (ribbon) cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated fiber

c. Actual producing capacity as of date shown

d. Future producing capacity planned for certain dates as of NOV 1989

e. Data since November 1986 do not include Vinyon

SURVEY COVERAGE & DEFINITIONS

The survey figures shown in the table above cover the manufactured fibers in all their primary forms; i.e., filament yarn, monofilaments, polypropylene spunbonded and film fiber are tabulated as filament yarn, while staple, tow and fiberfill are tabulated as staple. The glass fiber data cover all primary forms of that fiber (yarn and strand, staple yarn and sliver, roving and cake, chopped and milled fiber and mat) although only an aggregate figure is published to avoid disclosure of individual company data. **Glass fiber data are no longer included with the filament yarn totals. The data were last published in the December 1984 issue.** The "capacity" to produce waste is **not** included in this survey.

Capacity is based on the current and projected "mix" of deniers, filament counts, packages, etc. It is **emphasized** that all figures refer to ***current*** and ***planned*** capacity. **They are not to be interpreted as a production forecast.**

Under the survey definitions, all productive equipment which is currently, or is planned to be, in operable condition is counted as capacity, regardless of whether it is actually producing fiber at the time the capacity measurement is taken. Equipment which is definitely scheduled for scrapping, or which has been scrapped since the last survey, is excluded from the capacity tabulation. The capacity data reflect ***potential***, rather than ***operating*** capacity.

TABLE 11:
CANADIAN DOMESTIC TOTAL FIBER CONSUMPTION [a]
MILLION POUNDS

YEAR	MANUFACTURED FIBER	COTTON	WOOL	TOTAL
1980	656.1	301.9	41.1	999.1
1981	569.1	292.1	56.6	917.8
1982	509.5	257.0	51.4	817.9
1983	663.5	279.2	66.7	1009.4
1984	714.8	295.9	79.5	1090.2
1985	767.0	251.5	80.3	1098.8
1986	871.8	330.2	81.8	1283.8
1987	872.6	360.0	78.1	1310.7

TABLE 12:
CANADIAN PER CAPITA FIBER CONSUMPTION [a]
POUNDS

PERIOD	POPULATION	PER CAPITA MANUFACTURED FIBER	PER CAPITA COTTON	PER CAPITA WOOL	PER CAPITA TOTAL
1980	24.1	27.2	12.5	1.7	41.4
1981	24.4	23.3	12.0	2.3	37.6
1982	24.7	20.6	10.4	2.1	33.1
1983	24.9	26.6	11.2	2.7	40.5
1984	25.1	28.5	11.8	3.2	43.5
1985	25.4	30.2	9.9	3.2	43.3
1986	25.6	34.1	12.9	3.2	50.2
1987	25.9	33.7	13.9	3.0	50.6

a. Based on Canadian domestic consumption (mill consumption plus imports less exports of semi-manufactured and manufactured products).
Population in millions of people.

TABLE 13:
CANADIAN MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS
MILLION POUNDS & *PERCENT*

	MANUFACTURED FIBER MILL CONSUMPTION=PRODUCERS' SHIPMENTS (DOM) PLUS IMPORTS FOR CONSUMPTION (IMP)															
	CELLULOSIC FIBER								NONCELLULOSIC FIBER							
	YARN+MONOFIL			STAPLE+TOW					YARN+MONOFIL			STAPLE+TOW				
YEAR	DOM	IMP	TOTAL	DOM	IMP	TOTAL	EXP	TOTAL	DOM	IMP	TOTAL	DOM	IMP	TOTAL	EXP	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1980	30.9	17.0	47.9	66.1	9.3	75.4	58.7	64.6	163.1	84.2	247.3	105.8	80.9	186.7	34.3	399.7
1981	29.7	17.2	46.9	62.1	4.0	66.1	54.7	58.3	145.3	59.5	204.8	96.8	92.8	189.6	64.8	329.6
1982	20.9	21.7	42.6	61.7	2.3	64.0	43.9	62.7	114.6	46.1	160.7	99.2	67.5	166.7	48.2	279.2
1983	22.0	24.3	46.3	66.1	4.1	70.2	56.5	60.0	130.6	99.0	229.6	116.9	86.3	203.2	68.5	364.3
1984	22.0	24.3	46.3	61.3	4.1	65.4	53.2	58.5	137.3	99.0	236.3	130.1	86.3	216.4	67.1	385.6
1985	17.6	25.2	42.8	59.3	4.9	64.2	54.1	52.9	165.6	115.1	280.7	119.9	89.9	209.8	70.5	420.0
1986	19.4	28.3	47.7	64.2	5.2	69.4	47.9	69.2	166.0	129.1	295.1	131.0	100.9	231.9	47.4	479.6
1987	18.7	25.4	44.1	62.8	4.5	67.3	60.5	50.9	157.6	143.1	300.7	128.3	101.3	229.6	30.0	500.3

Continued on opposite page

TABLE 13:

CANADIAN MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS

(CONTINUED)

MILL POUNDS & *PERCENT*

	MILL CONSUMPTION OF 4 FIBERS								DOMESTIC CONSUMPTION OF 3 FIBERS (CONS)=MILL CONSUMPTION+IMPORTS (IMP) LESS EXPORTS (EXP) OF SEMIMANUFACTURED & MANUFACTURED PRODUCTS														
	MANUFACTURED FIBER		COTTON		WOOL		SILK	TOTAL		MANUFACTURED FIBER			COTTON			WOOL			TOTAL				
YEAR	LB	%	LB	%	LB	%	LB	LB	%	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS		
	(17)		(18)		(19)		(20)	(21)		(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)		
1980	464.3	*76.7*	130.1	*21.5*	10.9	*1.8*	--	605.3	*100.0*	268.3	76.5	656.1	192.7	20.9	301.9	40.3	10.1	41.1	501.3	107.5	999.1		
1981	387.9	*72.5*	132.3	*24.7*	15.0	*2.8*	--	535.2	*100.0*	255.7	74.5	569.1	179.2	19.4	292.1	49.8	8.2	56.6	484.7	102.1	917.8		
1982	341.9	*77.4*	88.2	*20.0*	11.7	*2.6*	--	441.8	*100.0*	228.4	60.8	509.5	193.1	24.3	257.0	46.3	6.6	51.4	467.8	91.7	817.9		
1983	424.3	*75.7*	121.3	*21.6*	14.7	*2.7*	--	560.3	*100.0*	303.4	64.2	663.5	181.7	23.8	279.2	59.5	7.5	66.7	544.6	95.5	1009.4		
1984	444.1	*76.6*	121.3	*20.9*	14.4	*2.5*	--	579.8	*100.0*	342.6	71.9	714.8	198.0	23.4	295.9	72.6	7.5	9.5	613.2	102.8	1090.2		
1985	472.9	*79.5*	105.8	*17.8*	16.1	*2.7*	--	594.8	*100.0*	356.7	62.6	767.0	169.1	23.4	251.5	73.9	9.7	80.3	599.7	95.7	1098.8		
1986	548.8	*80.1*	119.0	*17.4*	17.6	*2.5*	--	685.4	*100.0*	394.2	71.2	871.8	246.7	35.5	330.2	77.4	13.2	81.8	718.3	119.9	1283.8		
1987	551.2	*83.4*	94.8	*14.3*	15.3	*2.3*	--	661.3	*100.0*	414.2	92.8	872.6	304.0	38.8	360.0	75.4	12.6	78.1	793.6	144.2	1310.7		

SOURCES OF DATA, ARRANGED BY COLUMN NUMBER ( ):

1 - 16: ***Textile Organon***, January 1989 and earlier editions

18: ***International Cotton Advisory Committee***, October 1987 & 1988 issues. Cotton refers to ginned raw cotton. It does not refer to waste or cotton fibers subjected to any other process. Data are for the cotton year ending July 31,1987

19: ***Commonwealth Secretariat***. Wool refers to virgin wool, clean basis, at the spinning stage

22, 23, 25, 26, 28 & 29: ***Food and Agriculture Organization of the United Nations***. Some data are preliminary

CERTAIN TOTALS IN THE TABLES

(Obvious totals such as columns 1+2=3, 4+5=6, ect. are not described here.)

8 Columns 3 + 6 - 7
16 Columns 11 + 14 - 15
17 Columns 8 + 16
24 Columns 17 + 22 - 23
27 Columns 18 + 25 - 26
30 Columns 19 + 28 - 30

TABLE 14:
CANADIAN MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON, & WOOL

MILLION POUNDS & *PERCENT*

									MANUFACTURED FIBER DETAIL			
									CELLULOSIC TOTAL[d]		NONCELLULOSIC TOTAL[d]	
	GRAND TOTAL		COTTON[b]		WOOL[c]		MANUFACTURED FIBER[a]					
Year	lbs	%	lbs	%	lbs	%	lbs	%	lbs	%	lbs	%
1980	605.3	*100.0*	130.1	*21.5*	10.9	*1.8*	464.3	*76.7*	64.6	*10.7*	399.7	*66.0*
1981	535.2	*100.0*	132.3	*24.7*	15.0	*2.8*	387.9	*72.5*	58.3	*10.9*	329.6	*61.6*
1982	475.4	*100.0*	88.2	*20.0*	11.7	*2.6*	375.5	*77.4*	83.2	*17.5*	292.3	*61.5*
1983	560.3	*100.0*	121.3	*21.6*	14.7	*2.7*	424.3	*75.7*	60.0	*10.7*	364.3	*65.0*
1984	579.8	*100.0*	121.3	*20.9*	14.4	*2.5*	444.1	*76.6*	58.5	*10.1*	385.6	*66.5*
1985	594.8	*100.0*	105.8	*17.8*	16.1	*2.7*	472.9	*79.5*	52.9	*8.9*	420.0	*70.6*
1986	685.4	*100.0*	119.0	*17.4*	17.6	*2.5*	548.8	*80.1*	69.2	*10.1*	479.6	*70.0*
1987	661.3	*100.0*	94.8	*14.3*	15.3	*2.3*	551.2	*83.4*	50.9	*7.7*	500.3	*75.7*

a. Manufactured fiber data are from ***Textile Organon***, January 1989 and earlier editions. The data show the manufactured net available supply, which approximates mill consumptions.

b. **Source: *International Cotton Advisory Committee***, October 1987 & 1988 issues. Cotton refers to ginned raw cotton. It does not refer to waste or cotton fibers subjected to any other process. Data are for the cotton year ending July 31,1987.

c. **Source: *Commenwealth Secretariat***. Wool refers to virgin wool, clean basis, at the spinning stage.

d. Including yarn, staple+tow and spun yarn.

TABLE 15:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	1989												YEAR TO DATE	
ITEMS & COUNTRY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	6										6	
BRAZIL	53	110	55										218	
CANADA	745	619	686										2050	
GERMANY, FED. REP. OF	784	515	697										1996	
JAPAN	55	121	122										298	
MEXICO	156	99	171										426	
NETHERLANDS	61	239	261										561	
UNITED KINGDOM	75	68	113										256	
ALL OTHER COUNTRIES [a]	187	68	88										343	
TOTAL ARTIFICIAL YARN	**2116**	**1839**	**2199**										**6154**	**4031**
ARTIFICIAL (CELLULOSIC; STAPLE+TOW+TOPS														
AUSTRIA	323	422	377										1122	
CANADA	4757	1990	4093										10840	
GERMANY, FED. REP. OF	68	67	95										230	
JAPAN	150	521	422										1093	
UNITED KINGDOM	265	225	1										491	
ALL OTHER COUNTRIES [b]	414	266	656										1336	
TOTAL ARTIFICIAL STAPLE+TOW	**5977**	**3491**	**5644**										**15112**	**3344**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	0	56	115										171	
BRAZIL	124	137	365										626	
CANADA	3397	2900	2855										9152	
COSTA RICA	252	487	591										1330	
ECUADOR	91	26	144										261	
FRANCE	886	703	708										2297	
GERMANY, FED. REP. OF	2231	2071	2641										6943	
IRELAND	0	32	1										33	
ISRAEL	299	217	172										688	
ITALY	378	106	129										613	
JAPAN	881	1233	1007										3121	
KOREA, REP. OF	10	49	7										66	
MEXICO	1447	2233	2385										6065	
NETHERLANDS	68	170	164										402	
SINGAPORE	0	25	0										25	
TAIWAN	50	175	650										875	
THAILAND	65	64	69										198	
UNITED KINGDOM	1398	1357	1491										4246	
ALL OTHER COUNTRIES [c]	36	194	295										525	
TOTAL SYNTHETIC YARN	**11613**	**12235**	**13789**										**37637**	**29817**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	3	9										12	
AUSTRALIA	31	160	1										192	
BELGIUM	47	99	60										206	
BRAZIL	0	24	0										24	
CANADA	1413	737	1481										3631	
FRANCE	230	304	253										787	
GERMANY, FED. REP. OF	1985	1758	1318										5061	
INDIA	0	0	3772										3772	
IRELAND	280	480	305										1065	
ITALY	482	394	206										1082	
JAPAN	1773	1757	2303										5833	
KOREA, REP. OF	2297	3387	3933										9617	
MEXICO	1049	372	420										1841	
NETHERLANDS	31	103	99										233	
SWITZERLAND	146	165	134										445	
TAIWAN	262	235	215										712	
UNITED KINGDOM	2318	2304	1643										6265	
ALL OTHER COUNTRIES [d]	28	29	223										280	
TOTAL SYNTHETIC STAPLE+TOW	**12372**	**12311**	**16375**										**41058**	**43312**

a. Chile 88, Korea, Rep. of 88, Ireland 73, Italy 38, Norway 32, Singapore 23, Taiwan 1.

b. China, PRC 473, Australia 217, Korea, Rep. of 171, Germany, Dem. Rep. 95, Poland 78, Switzerland 75, Romania 58, Taiwan 56, France 51, Sweden 43, India 18, Mexico 1.

c. Portugal 139, Argentina 86, Austria 63, Australia 47, Egypt 44, Turkey 40, Spain 31, Morocco 26, Chile 22, El Salvador 15, Switzerland 7, Greece 2, Sweden 2, Denmark 1.

d. Spain 186, Germany, Dem. Rep. 42, Israel 29, Turkey 18, Hong Kong 3, China, PRC 2.

Effective January 1,1989 the U.S. Manufactured Imports for Consumption by Country of Origin are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

Selected U.S. Manufactured Imports for Consumption by Country of Origin for 1988 are published in the ***Textile Organon***, February 1989 issue, page 31.

TABLE 16:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

ITEM	1989												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	114	266	408										788	
TEXTURED	180	1	0										181	
OTHER	1726	1532	1671										4929	
MONOFILAMENTS & STRIPS	96	40	120										256	
SUBTOTAL ABOVE	**2116**	**1839**	**2199**										**6154**	**4031**
STAPLE	5924	3481	5624										15029	
TOW	47	0	0										47	
TOPS	6	10	20										36	
SUBTOTAL ABOVE	**5977**	**3491**	**5644**										**15112**	**3344**
WASTE	**18**	**122**	**47**										**187**	**5**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON													3636	
HIGH TENACITY	1037	1093	1506											
TEXTURED														
UP TO 450 DENIER	385	217	359										961	
OVER 450 DENIER	1	76	0										77	
OTHER	3820	3306	3786										10912	
MONOFILAMENTS & STRIPS	72	159	58										289	
SUBTOTAL ABOVE	**5315**	**4851**	**5709**										**15875**	**9626**
POLYESTER														
HIGH TENACITY	957	880	909										2746	
TEXTURED	883	1673	1738										4294	
POY	0	40	642										682	
OTHER	1152	1481	1719										4352	
MONOFILAMENTS & STRIPS	65	80	34										179	
SUBTOTAL ABOVE	**3057**	**4154**	**5042**										**12253**	**8898**
OTHER SYNTHETIC FILAMENT														
TEXTURED	2057	1685	1550										5292	
OTHER	1037	1246	1180										3463	
MONOFILAMENTS & STRIPS	147	299	308										754	
SUBTOTAL ABOVE	**3241**	**3230**	**3038**										**9509**	**11293**
STAPLE														
NYLON	1726	1896	1845										5467	
POLYESTER	5584	5594	10047										21225	
ACRYLIC	1934	1028	1576										4538	
POLYPROPYLENE	44	55	197										296	
OTHER	172	1040	651										1863	
TOW														
NYLON	237	433	257										927	
POLYESTER	47	78	131										256	
ACRYLIC	2023	1709	1127										4859	
OTHER	117	120	146										383	
TOPS	488	358	398										1244	
SUBTOTAL ABOVE	**12372**	**12311**	**16375**										**41058**	**43312**
WASTE														
NYLON	1971	1804	1754										5529	
POLYESTER	999	340	730										2069	
OTHER	396	725	477										1598	
TOTAL MANUFACTURED FIBERS ABOVE	**35462**	**32867**	**41015**										**109344**	**92294**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	15	13	15										43	
SPUN YARN	0	0	0										0	
SPUN YARNS														
SYNTHETIC	517	686	517										1720	
ARTIFICIAL	0	0	0										0	
PUT UP FOR RETAIL SALE	71	50	27										148	
GRAND TOTAL ABOVE	**36065**	**33616**	**41574**										**111255**	**116136**

SOURCE: U.S. Census Bureau Report IM145X.

Effective January 1,1989 the U.S. Imports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

U.S. Monthly Imports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 32.

TABLE 17:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

ITEM	1989												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	9	13	45										67	
TEXTURED	463	17	29										509	
OTHER	1278	296	267										1841	
MONOFILAMENTS & STRIPS	90	0	7										97	
SUBTOTAL ABOVE	**1840**	**326**	**348**										**2514**	**2418**
STAPLE	2827	1786	1325										5938	
TOPS	94	0	8										102	
SUBTOTAL ABOVE	**2921**	**1786**	**1333**										**6040**	**5092**
WASTE	**1303**	**559**	**1587**										**3449**	**592**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON													26625	
HIGH TENACITY	9331	9410	7884											
TEXTURED														
UP TO 450 DENIER	522	586	719										1827	
OVER 450 DENIER	4706	5051	5459										15216	
OTHER	2038	2103	2133										6274	
MONOFILAMENTS & STRIPS	239	258	187										684	
SUBTOTAL ABOVE	**16836**	**17408**	**16382**										**50626**	**42939**
POLYESTER														
HIGH TENACITY	3031	3122	2773										8926	
TEXTURED	3651	3677	2385										9713	
POY	939	1250	2204										4393	
OTHER	1007	584	829										2420	
MONOFILAMENTS & STRIPS	208	213	203										624	
SUBTOTAL ABOVE	**8836**	**8846**	**8394**										**26076**	**19839**
OTHER SYNTHETIC FILAMENT														
TEXTURED	1033	457	872										2362	
OTHER	1342	1471	1735										4548	
MONOFILAMENTS & STRIPS	486	421	771										1678	
SUBTOTAL ABOVE	**2861**	**2349**	**3378**										**8588**	**11229**
STAPLE														
NYLON	2605	3265	3262										9132	
POLYESTER	14048	10762	12940										37750	
ACRYLIC	3326	5674	6643										15643	
POLYPROPYLENE	1336	1569	1129										4034	
OTHER	836	2036	1489										4361	
TOW														
NYLON	31	50	50										131	
POLYESTER	37	564	472										1073	
ACRYLIC	1037	1761	2185										4983	
OTHER	161	16	34										211	
TOPS	847	964	1224										3035	
SUBTOTAL ABOVE	**24264**	**26661**	**29428**										**80353**	**111863**
WASTE														
NYLON	2127	2118	2159										6404	
POLYESTER	4369	3980	3189										11538	
OTHER	5113	6957	8080										20150	
TOTAL MANUFACTURED FIBERS ABOVE	**70470**	**70990**	**74278**										**215738**	**225005**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	13	51	43										107	
SPUN YARN	0	0	0										0	
SPUN YARNS														
SYNTHETIC	732	959	1152										2843	
ARTIFICIAL	0	0	0										0	
PUT UP FOR RETAIL SALE	606	740	923										2269	
GRAND TOTAL ABOVE	**71821**	**72740**	**76396**										**220957**	

SOURCE: U.S. Census Bureau Report IM145X.

Effective January 1,1989 the U.S. Exports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

U.S. Monthly Exports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 33.

TABLE 18:
QUARTERLY MANUFACTURED FIBER DATA

MILLION POUNDS

ITEM	1987					1988					1989				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						YARN+MONOFILAMENTS									
CELLULOSIC YARN [d]															
PRODUCTION	46.2	46.7	45.2	53.0	191.1	49.1	54.4	54.9	55.5	213.9	52.7				
SHIPMENTS - DOMESTIC	39.2	43.6	40.2	43.8	166.8	41.4	47.3	45.8	48.1	182.6	46.0				
- EXPORT	5.0	5.9	6.1	7.9	24.9	8.7	7.9	10.0	7.5	34.1	6.8				
TOTAL SHIPMENTS	44.2	49.5	46.3	51.7	191.7	50.1	55.2	55.[illegible]	55.6	216.7	52.8				
ENDING STOCK	16.8	14.0	12.9	14.2		13.2	12.4	11.5	11.4		11.3				
IMPORTS	3.0	2.5	2.7	4.4	12.6	4.0	4.0	4.4	5.2	17.6	6.2				
TOTAL AVAILABLE	42.2	46.1	42.9	48.2	179.4	45.4	51.3	50.2	53.3	200.2	52.2				
NYLON															
PRODUCTION	414.1	427.5	432.9	422.7	1697.2	431.7	440.0	428.8	427.0	1727.5	436.8				
SHIPMENTS - DOMESTIC	389.3	394.8	405.8	364.4	1554.3	387.8	395.4	391.1	398.1	1572.4	387.9				
- EXPORT	32.1	37.9	33.7	35.8	139.5	39.6	38.1	41.5	46.8	166.0	42.6				
TOTAL SHIPMENTS	421.4	432.7	439.5	400.2	1693.8	427.4	433.5	432.6	444.9	1738.4	430.5				
ENDING STOCK	125.5	120.3	113.7	136.2		140.5	147.0	143.2	125.3		131.6				
OLEFIN [a]															
PRODUCTION	255.8	283.9	287.4	306.7	1133.8	301.6	308.9	291.7	302.0	1204.2	306.8				
SHIPMENTS - DOMESTIC	261.5	281.8	287.5	304.7	1135.5	298.3	302.5	287.7	295.6	1184.1	299.6				
- EXPORT	2.7	1.7	1.8	2.1	8.3	2.7	5.9	6.0	5.2	19.8	5.2				
TOTAL SHIPMENTS	264.2	283.5	289.3	306.8	1143.8	301.0	308.4	293.7	300.8	1203.9	304.8				
ENDING STOCK	54.5	54.9	53.0	52.9		53.5	54.0	52.0	53.2		55.2				
POLYESTER															
PRODUCTION	287.7	303.3	293.9	293.8	1178.7	284.5	313.5	304.6	326.1	1228.7	314.4				
SHIPMENTS - DOMESTIC	266.8	285.2	280.8	280.6	1113.4	266.7	291.9	278.2	320.6	1157.4	292.0				
- EXPORT	16.4	18.4	15.8	16.3	66.9	18.8	17.8	16.7	21.4	74.7	15.9				
TOTAL SHIPMENTS	283.2	303.6	296.6	296.9	1180.3	285.5	309.7	294.9	342.0	1232.1	307.9				
ENDING STOCk	115.4	115.1	112.4	109.3		108.3	112.1	121.8	105.9		112.4				
TOTAL NONCELLULOSIC ABOVE															
PRODUCTION	957.6	1014.7	1014.2	1023.2	4009.7	1017.8	1062.4	1025.1	1055.1	4160.4	1058.0				
SHIPMENTS - DOMESTIC	917.6	961.8	974.1	949.7	3803.2	952.8	989.8	957.0	1014.3	3913.9	979.5				
- EXPORT	51.2	58.0	51.3	54.2	214.7	61.1	61.8	64.2	73.4	260.5	63.7				
SHIPMENTS	968.8	1019.8	1025.4	1003.9	4017.9	1013.9	1051.6	1021.2	1087.7	4174.4	1043.2				
ENDING STOCK	295.4	290.3	279.1	298.4		302.3	313.1	317.0	284.4		299.2				
DOMESTIC SHIPMENTS	917.6	961.8	974.1	949.7	3803.2	952.8	989.8	957.0	1014.3	3913.9	979.5				
IMPORTS - TEXTURED YARN [b]	19.3	15.1	17.2	16.9	68.5	15.7	14.7	16.1	14.1	60.6	10.6				
- OTHER YARN [b]	13.3	12.4	11.9	11.3	48.9	11.2	11.1	11.9	13.4	47.6	25.1				
- MONOFILAMENTS	0.8	0.9	1.0	1.1	3.8	1.8	2.3	2.0	2.0	8.1	1.2				
TOTAL IMPORTS	33.4	28.4	30.1	[illegible].3	121.2	28.7	28.1	30.0	29.5	116.3	36.9				
TOTAL AVAILABLE	951.0	990.2	1004.2	979.0	3924.4	981.5	1017.9	987.0	1043.8	4030.2	1016.4				
						GLASS FIBER									
TOTAL SHIPMENTS	366.1	392.5	383.3	371.2	1513.1	386.4	415.2	405.9	380.2	1587.7	394.2				
IMPORTS	4.9	5.6	11.3	7.6	29.4	5.6	7.1	6.5	7.0	26.2	0.7				

FOOTNOTES FOR TABLE ABOVE & OPPOSITE:

"Imports" are imports for consumption, as reported by the U.S. Census Bureau

- a. Also include film fiber as well as spunbonded polypropylene
- b. Includes singles and plied
- c. For 1987-1988, these figures are composites of the nylon, acrylic+modacrylic and polyester staple imports, i.e., Commodity Numbers 309.4331, .4351, .4336 & .4361. For 1989, Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon.***
- d. Includes both rayon & acetate yarn.
- e. For 1987-1988, these figures are composites of olefin and other staple imports, i.e., Commodity Numbers 309.4371, .4341 & .4390. For 1989, Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon.***
- f. 1987-1989 data exclude Vinyon

TABLE 18:
QUARTERLY MANUFACTURED FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1987					1988					1989				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						STAPLE+TOW									
RAYON															
PRODUCTION	**101.3**	**100.5**	**103.6**	**108.4**	**413.8**	**106.6**	**101.2**	**99.4**	**92.6**	**399.8**	**100.8**				
SHIPMENTS - DOMESTIC	91.8	91.0	97.9	102.4	383.1	101.9	102.0	94.0	88.1	386.0	99.7				
- EXPORT	8.1	8.2	12.6	3.5	32.4	5.1	6.1	5.5	3.8	20.5	3.4				
TOTAL SHIPMENTS	**99.9**	**99.2**	**110.5**	**105.9**	**415.5**	**107.0**	**108.1**	**99.5**	**91.9**	**406.5**	**103.1**				
ENDING STOCK	**23.8**	**25.1**	**18.2**	**20.7**		**20.3**	**13.4**	**13.3**	**14.0**		**11.7**				
DOMESTIC SHIPMENTS	91.8	91.0	97.9	102.4	383.1	101.9	102.0	94.0	88.1	386.0	99.7				
IMPORTS FOR CONSUMPTION															
STAPLE	3.9	3.8	2.6	2.7	13.0	3.2	3.8	5.5	6.5	19.0	} 6.0				
GROUPED FILAMENTS	0.2	0.1	0.4	0.2	0.9	0.2	0.3	0.5	0.4	1.4					
TOTAL IMPORTS	4.1	3.9	3.0	2.9	13.9	3.4	4.1	6.0	6.9	20.4	6.0				
TOTAL AVAILABLE	**95.9**	**94.9**	**100.9**	**105.3**	**397.0**	**105.3**	**106.1**	**100.0**	**95.0**	**406.4**	**105.7**				
NYLON															
PRODUCTION	**247.4**	**261.0**	**252.8**	**231.2**	**992.4**	**231.5**	**235.9**	**226.6**	**247.7**	**941.7**	**252.9**				
SHIPMENTS-DOMESTIC	246.2	253.2	246.2	220.4	966.0	239.4	223.9	241.6	240.0	944.9	242.0				
-EXPORT	5.3	5.0	3.7	5.5	19.5	4.3	4.3	4.9	5.5	19.0	7.5				
TOTAL SHIPMENTS	**251.5**	**258.2**	**249.9**	**225.9**	**985.5**	**243.7**	**228.2**	**246.5**	**245.5**	**963.9**	**249.5**				
ENDING STOCK	**58.7**	**61.5**	**64.4**	**69.7**		**57.5**	**65.2**	**45.3**	**47.5**		**50.9**				
IMPORTS	14.8	8.7	8.6	6.9	39.0	4.9	5.1	5.4	6.5	21.9	6.4				
TOTAL AVAILABLE	**261.0**	**261.9**	**254.8**	**227.3**	**1005.0**	**244.3**	**229.0**	**247.0**	**246.5**	**966.8**	**248.4**				
ACRYLIC+MODACRYLIC															
PRODUCTION	**155.7**	**159.0**	**135.3**	**141.5**	**591.5**	**148.8**	**150.9**	**141.5**	**146.9**	**588.1**	**144.3**				
SHIPMENTS-DOMESTIC	139.4	131.6	112.8	95.5	479.3	109.0	109.3	107.3	95.5	421.1	112.9				
-EXPORT	14.7	17.0	32.0	51.4	115.1	47.7	29.1	39.8	52.5	169.1	23.6				
TOTAL SHIPMENTS	**154.1**	**148.6**	**144.8**	**146.9**	**594.4**	**156.7**	**138.4**	**147.1**	**148.0**	**590.2**	**136.5**				
ENDING STOCK	**67.8**	**78.2**	**68.7**	**63.3**		**55.4**	**67.9**	**62.3**	**61.2**		**69.0**				
IMPORTS	3.3	4.1	4.6	3.7	15.7	3.3	4.4	3.3	4.3	15.3	9.4				
TOTAL AVAILABLE	**142.7**	**135.7**	**117.4**	**99.2**	**495.0**	**112.3**	**113.7**	**110.6**	**99.8**	**436.4**	**122.3**				
OLEFIN+VINYON [1]															
PRODUCTION	**85.5**	**92.3**	**92.1**	**90.6**	**360.5**	**94.3**	**94.5**	**85.9**	**89.3**	**364.0**	**97.1**				
SHIPMENTS-DOMESTIC	81.1	85.7	86.1	88.2	341.1	83.8	87.6	84.8	88.0	344.2	91.6				
-EXPORT	6.9	5.7	5.4	4.8	22.8	5.6	5.8	4.4	3.8	19.6	3.0				
TOTAL SHIPMENTS	**88.0**	**91.4**	**91.5**	**93.0**	**363.9**	**89.4**	**93.4**	**89.2**	**91.8**	**363.8**	**94.6**				
ENDING STOCK	**31.0**	**31.9**	**32.5**	**30.1**		**35.0**	**36.1**	**32.8**	**30.3**		**32.8**				
POLYESTER															
PRODUCTION	**581.0**	**596.2**	**578.4**	**606.2**	**2361.8**	**587.4**	**619.5**	**604.3**	**640.6**	**2451.8**	**609.3**				
SHIPMENTS-DOMESTIC	534.4	549.9	537.5	579.2	2201.0	558.3	572.5	551.2	629.8	2311.8	575.3				
-EXPORT	48.2	47.0	38.3	34.7	168.2	27.8	31.1	38.2	40.0	137.1	34.9				
TOTAL SHIPMENTS	**582.6**	**596.9**	**575.8**	**613.9**	**2369.2**	**586.1**	**603.6**	**589.4**	**669.8**	**2448.9**	**610.2**				
ENDING STOCK	**162.3**	**161.6**	**164.2**	**156.5**		**157.8**	**173.7**	**188.6**	**159.4**		**158.5**				
IMPORTS	15.5	17.4	23.4	14.4	70.7	15.0	20.7	22.3	15.2	73.2	21.5				
TOTAL AVAILABLE	**549.9**	**567.3**	**560.9**	**593.6**	**2271.7**	**573.3**	**593.2**	**573.5**	**645.0**	**2385.0**	**596.8**				
TOTAL NONCELLULOSIC															
PRODUCTION	**1069.6**	**1108.5**	**1058.6**	**1069.5**	**4306.2**	**1062.0**	**1100.8**	**1058.3**	**1124.5**	**4345.6**	**1103.6**				
SHIPMENTS-DOMESTIC	1001.1	1020.4	982.6	983.3	3987.4	990.5	993.3	984.9	1053.3	4022.0	1021.8				
-EXPORT	75.1	74.7	79.4	96.4	325.6	85.4	70.3	87.3	101.8	344.8	69.0				
TOTAL SHIPMENTS	**1076.2**	**1095.1**	**1062.0**	**1079.7**	**4313.0**	**1075.9**	**1063.6**	**1072.2**	**1155.1**	**4366.8**	**1090.8**				
ENDING STOCK	**319.8**	**333.2**	**329.8**	**319.6**		**305.7**	**342.9**	**329.0**	**298.4**		**311.2**				
DOMESTIC SHIPMENTS	1001.1	1020.4	982.6	983.3	3987.4	990.5	933.3	984.9	1053.3	4022.0	1021.8				
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE [c]	33.6	30.2	36.6	25.0	125.4	23.2	30.2	31.0	26.0	110.[illegible]	37.3				
OTHER N.C. STAPLE [e]	2.8	3.6	3.7	3.4	13.5	5.6	5.7	4.3	4.2	19.8	} 3.8				
GROUPED FILAMENTS	12.4	12.4	12.1	13.1	50.0	14.5	17.8	15.7	17.8	65.8					
TOTAL IMPORTS	48.8	46.2	52.4	41.5	188.9	43.3	53.7	51.0	48.0	196.0	41.1				
TOTAL AVAILABLE	**1049.9**	**1066.6**	**1035.0**	**1024.8**	**4176.3**	**1033.8**	**1047.0**	**1035.9**	**1101.3**	**4218.0**	**1062.9**				

See footnotes on opposite page.

TABLE 19:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1989												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
	MANUFACTURED FIBER TOTAL SHIPMENTS[b c]													
CELLULOSIC														
YARN	17.3	17.1	18.4	21.5									74.3	69.3
RAYON STAPLE	34.5	32.1	36.5	32.1									135.2	142.6
TOTAL CELLULOSIC	**51.8**	**49.2**	**54.9**	**53.6**									**209.5**	**211.9**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	31.3	30.5	32.5	32.3									126.6	126.7
- CARPET	74.9	77.2	82.0	77.5									311.6	318.5
- TEXTILE[f]	33.9	33.2	35.0	34.6									136.7	126.9
POLYESTER - INDUSTRIAL[d]	28.6	29.7	30.9	32.2									121.4	117.9
- TEXTILE[f]	72.4	71.4	74.9	78.2									296.9	273.3
OLEFIN[e]	102.5	101.5	100.8	96.6									401.4	403.7
TOTAL YARN	**343.6**	**343.5**	**356.1**	**351.4**									**1394.6**	**1367.0**
STAPLE+TOW+FIBERFILL														
NYLON	82.3	78.4	88.8	76.4									325.9	314.8
ACRYLIC+MODACRYLIC	41.7	46.2	48.6	49.2									185.7	202.1
POLYESTER	201.1	192.3	216.8	213.7									823.9	798.4
OLEFIN	31.0	31.6	32.0	31.4									126.0	119.2
TOTAL STAPLE	**356.1**	**348.5**	**386.2**	**370.7**									**1461.5**	**1434.5**
TOTAL NONCELLULOSIC	**699.7**	**692.0**	**742.3**	**722.1**									**2856.1**	**2801.5**
TOTAL MANUFACTURED FIBER	**751.5**	**741.2**	**797.2**	**775.7**									**3065.6**	**3013.4**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
CELLULOSIC														
YARN	11.7	10.9	11.3	10.4									10.4	14.0
RAYON STAPLE	13.0	13.2	11.7	12.5									12.5	18.1
TOTAL CELLULOSIC	**24.7**	**24.1**	**23.0**	**22.9**									**22.9**	**32.1**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.4	24.7	22.4	22.9									22.9	23.2
- CARPET	63.5	63.2	62.8	68.7									68.7	67.1
- TEXTILE[f]	47.1	48.3	46.4	47.0									47.0	49.7
POLYESTER - INDUSTRIAL[d]	35.0	31.4	30.6	31.6									31.6	29.6
- TEXTILE[f]	73.5	76.9	81.8	85.1									85.1	77.3
OLEFIN[e]	53.1	53.8	55.2	55.3									55.3	54.1
TOTAL YARN	**296.6**	**298.3**	**299.2**	**310.6**									**310.6**	**301.0**
STAPLE+TOW+FIBERFILL														
NYLON	51.8	52.9	50.9	57.5									57.5	64.5
ACRYLIC+MODACRYLIC	70.5	68.3	69.0	67.3									67.3	58.0
POLYESTER	163.5	163.8	158.5	164.4									164.4	161.7
OLEFIN	31.0	31.3	32.8	34.3									34.3	35.8
TOTAL STAPLE	**316.8**	**316.3**	**311.2**	**323.5**									**323.5**	**320.0**
TOTAL NONCELLULOSIC	**613.4**	**614.6**	**610.4**	**634.1**									**634.1**	**621.0**
TOTAL MANUFACTURED FIBER	**638.1**	**638.7**	**633.4**	**657.0**									**657.0**	**653.1**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	12.1	12.7											24.8	24.6
CARPET CLASS WOOL	0.8	1.4											2.2	2.9
TOTAL RAW WOOL	12.9	14.1											27.0	27.5
RAW COTTON	289.5	301.0	345.0										935.5	950.7

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

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FIBER ORGANON

Formerly Textile Organon

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A publication of *Fiber Economics Bureau, Inc.*

WORLDWIDE MANUFACTURED FIBER SURVEY

Highlights

- Worldwide Survey -

  Fiber Demand
  Production and Producing Capacities
  Utilization Rates
  Directory of Producers
  Ownership Listing
  Olefin Fiber Production

Featuring....

Our annual survey of worldwide manufactured fiber production and planned capacity, with a worldwide directory of manufactured fiber producers.

Worldwide data in this issue are reported in thousand metric tons. The production and capacity tables will be published again in the July issue in millions of pounds. Country data on available supply will be published in the ***Fiber Organon*** as soon as information is available.

Data for previous years for most of the tables in this issue can be found in the ***Textile Organon Base Book*** (1962) and subsequent June issues of the ***Textile Organon***. The cotton demand figures shown in the table below are based on worldwide consumption rather than production, to eliminate problems from wide swings in cotton inventories.

TABLE 1:
WORLDWIDE DEMAND FOR CERTAIN FIBERS
THOUSAND METRIC TONS

TYPE OF FIBER	1984	1985	1986	1987	1988	*% CHANGE 1988 / 1987*
ARTIFICIAL (CELLULOSIC) FIBERS						
YARN+MONOFILAMENTS	935	921	928	909	935	*+2.9*
STAPLE+TOW	2061	2007	1935	1941	1950	*+0.5*
TOTAL ARTIFICIAL (CELLULOSIC)	**2996**	**2928**	**2863**	**2850**	**2885**	***+1.2***
SYNTHETIC (NONCELLULOSIC) FIBERS						
YARN+MONOFILAMENTS	5224	5576	5705	6062	6428	*+6.0*
STAPLE+TOW	6580	6860	7186	7605	7811	*+2.7*
TOTAL SYNTHETIC (NONCELLULOSIC)	**11804**	**12436**	**12891**	**13667**	**14239**	***+4.2***
TOTAL MANUFACTURED [a]	**14800**	**15364**	**15754**	**16517**	**17094**	***+3.5***
% of World Total	*47%*	*46%*	*44%*	*45%*	*46%*	
NATURAL FIBERS						
RAW COTTON [b]	15272	16565	18309	18163	18191	*+0.2*
RAW WOOL [c]	1655	1722	1717	1764	1797	*+1.9*
RAW SILK [d]	56	59	63	63	64	*+1.6*
TOTAL NATURAL	**16983**	**18346**	**20089**	**19990**	**20052**	***+0.3***
% of World Total	*53%*	*54%*	*56%*	*55%*	*54%*	
WORLD TOTAL	**31783**	**33710**	**35843**	**36507**	**37176**	***+1.8***
World Total %	*100%*	*100%*	*100%*	*100%*	*100%*	

The silk and manufactured fiber data are on a calendar year basis, while the figures for cotton and wool are on a seasonal basis.

a. Manufactured fiber data are from tables 3 and 4. Glass fiber, olefin and acetate cigarette tow production are not included.

b. International Cotton Advisory Committee. ***COTTON: Review of the World Situation***, May - June 1989. New series based on cotton consumption data.

c. Commonwealth Secretariat data, on a clean wool basis; See also the December 1988 ***Textile Organon***, page 263.

d. International Silk Association; Food and Agriculture Organization of the United Nations.

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Our sincere thanks are extended to the more than 170 foreign manufactured fiber associations, producing companies and individuals, as well as the U.S. Foreign Service posts reporting through the Office of Textiles and Apparel, International Trade Administration and the U.S. Department of Commerce who gave generous assistance with this worldwide survey.

TABLE 2:
NUMBER OF MANUFACTURED FIBER PRODUCING PLANTS (EXCEPT OLEFIN)

COUNTRY & REGION	CELLULOSIC		NONCELLULOSIC					GLASS FIBER	GRAND TOTAL
	ACETATE[a]	RAYON	ACRYLIC[b]	NYLON[c]	POLY-ESTER	OTHER[d]	TOTAL		
WESTERN EUROPE									
AUSTRIA		2			1	1	2		4
BELGIUM/LUXEMBOURG	1	1		3	1		4	2	8
FINLAND		1		1			1	1	3
FRANCE		1	1	8	3	1	13	2	16
GERMANY, FED. REP.	1	4	2	11	12	4	29	2	36
GREECE		1		2	3		5		6
IRELAND			1	1	2		4		4
ITALY/MALTA	2	2	5	17	10	2	34	2	40
NETHERLANDS		1		1	1	2	4	1	6
NORWAY								1	1
PORTUGAL		2	1	2	1		4	1	7
SPAIN	1	2	2	7	6		15	1	19
SWEDEN		1						1	2
SWITZERLAND				5	3		8		8
TURKEY		1	2	4	8		14	1	16
UNITED KINGDOM	2	1	2	8	6	3	19	5	27
TOTAL WESTERN EUROPE	7	20	16	70	57	13	156	20	203
EASTERN EUROPE									
ALBANIA			1		1		2		2
BULGARIA		1	1	1	1		3		4
CZECHOSLOVAKIA		6		3	2		5	2	13
GERMANY, DEM. REP.		8	2	3	2	1	8	1	17
HUNGARY		1	1	1			2		3
POLAND		5	1	1	2	2	6	2	13
ROMANIA		3	1	1	4		6		9
USSR	4	15	1	12	4	1	18	11	48
YUGOSLAVIA		2	1	2	5		8	1	11
TOTAL EASTERN EUROPE	4	41	9	24	21	4	58	17	120
U.S.A.	4	4	5	36	34	9	84	17	109
CANADA	1	1		3	1	1	5	1	8
OTHER AMERICAS									
ARGENTINA	1		1	7	5	1	14	1	16
BOLIVIA			1		1		2		2
BRAZIL		2	2	17	12	1	32	1	35
CHILE		1		2	3		5		6
COLOMBIA				2	3		5		5
COSTA RICA					1		1		1
CUBA		1							1
ECUADOR					3		3		3
GUATEMALA				1			1		1
MEXICO	1	1	3	9	9	2	23	1	26
PERU	1		1	4	4		9		10
URUGUAY	1			3	2		5		6
VENEZUELA	1			2	4	1	7		8
TOTAL OTHER AMERICAS	5	5	8	47	47	5	107	3	120
JAPAN	2	13	7	12	14	18	51	13	79
CHINA, PRC	[e]	9	10	12	20	8	50	3	62
OTHER ASIA									
BANGLADESH		2	1	1			2		4
INDIA	1	12	3	9	16		28		41
INDONESIA		3	1	5	11		17		20
KOREA, REP. OF	1	1	2	5	10	1	18		20
MALAYSIA			2	1	3		6		6
PAKISTAN	1			3	9		12		13
PHILIPPINES		1		2	2		4		5
SRI LANKA				1			1		1
TAIWAN		2	3	14	17		34		36
THAILAND		1		3	4		7		8
TOTAL OTHER ASIA	3	22	12	44	72	1	129		154
MIDDLE EAST, AFRICA & OCEANIA									
AUSTRALIA				3	2	1	6	1	7
EGYPT		2		1	2		3		5
IRAN			1	2	1		4		4
IRAQ		1							1
ISRAEL				1			1		1
KENYA				1	5		6		6
NIGERIA					1		1		1
SOUTH AFRICA				1	4		5		5
TANZANIA					1		1		1
TOTAL MIDDLE EAST, AFRICA & OCEANIA		3	1	9	16	1	27	1	31
WORLD TOTAL*	26	118	68	257	282	60	667	75	886

Planned facilities indicated by an asterick (*) in our listing of worldwide producers are not included in the above table.

* Data for North Korea are not included here.

a. Acetate includes triacetate.

b. Acrylic includes modacrylic.

c. Nylon excludes aramid.

d. Other includes 19 spandex, 13 vinyon, 6 saran, 5 aramid, 5 vinal, 2 biconstituent, 2 fluorocarbon, and 1 each of azlon, cupro, PBI, polyacrylate, polycarbonate, polychial, poliossiamide and promix.

e. China, PRC acetate data included with rayon data.

TABLE 3:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN
THOUSAND METRIC TONS

COUNTRY	ACTUAL PRODUCTION								
	1984			1985			1986		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE									
AUSTRIA	0	18.1	18.1	0	18.1	18.1	0	15.9	15.9
BENELUX[a]	76.1	24.1	100.2	80.5	30.1	110.6	73.0	34.4	107.4
FRANCE	60.2	131.5	191.7	60.7	122.0	182.7	61.2	106.0	167.2
GERMANY, FED. REP.	352.0	379.0	731.0	360.0	402.0	762.0	350.0	395.0	745.0
GREECE	9.0	10.0	19.0	9.0	10.0	19.0	9.4	10.5	19.9
IRELAND	11.5	38.7	50.2	11.5	45.3	56.8	11.0	61.0	72.0
ITALY/MALTA	154.0	373.8	527.8	171.6	392.0	563.6	175.0	401.9	576.9
SPAIN	77.6	182.8	260.4	85.0	189.9	274.9	84.9	191.3	276.2
SWITZERLAND	71.7	27.8	99.5	73.1	26.6	99.7	67.1	26.0	93.1
TURKEY	48.5	112.7	161.2	52.0	134.0	186.0	60.0	169.0	229.0
UNITED KINGDOM	80.0	160.0	240.0	84.7	158.0	242.7	78.2	130.0	208.2
TOTAL WESTERN EUROPE	**940.6**	**1458.5**	**2399.1**	**988.1**	**1528.0**	**2516.1**	**969.8**	**1541.0**	**2510.8**
EASTERN EUROPE									
ALBANIA	0	0	0	0.4	0	0.4	0.4	0	0.4
BULGARIA	24.9	42.8	67.7	28.0	42.8	70.8	38.0	47.9	85.9
CZECHOSLOVAKIA	69.9	37.1	107.0	76.0	38.8	114.8	86.7	45.8	132.5
GERMANY, DEM. REP.	65.0	78.9	143.9	65.0	80.8	145.8	77.0	81.8	158.8
HUNGARY	8.6	12.6	21.2	8.4	14.4	22.8	8.4	15.6	24.0
POLAND	83.3	61.0	144.3	86.4	50.6	137.0	85.6	46.6	132.2
ROMANIA	57.0	117.4	174.4	58.0	138.8	196.8	58.8	140.9	199.7
USSR	372.8	285.5	658.3	388.8	324.0	712.8	404.8	353.0	757.8
YUGOSLAVIA	33.5	60.9	94.4	35.5	59.5	95.0	39.7	57.6	97.3
TOTAL EASTERN EUROPE	**715.0**	**636.2**	**1411.2**	**746.5**	**749.7**	**1496.2**	**799.4**	**789.2**	**1588.6**
TOTAL EUROPE	**1655.6**	**2154.7**	**3810.3**	**1734.6**	**2277.7**	**4012.3**	**1769.2**	**2330.2**	**4099.4**

Y Yarn+monofilaments.

S Staple+tow+fiberfill.

a. Includes Belgium, Netherlands and Luxembourg.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1987			1988			3/1989			12/1990		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
0	15.7	15.7	0	17.4	17.4	0	22.0	22.0	0	22.0	22.0
74.0	33.0	107.0	69.9	31.1	101.0	103.5	83.0	186.5	103.5	74.0	177.5
56.8	104.2	161.0	56.6	116.4	173.0	84.0	133.0	217.0	84.0	133.0	217.0
355.3	404.0	759.3	363.5	416.5	780.0	419.0	431.0	850.0	423.0	438.0	861.0
9.4	10.0	19.4	9.6	8.5	18.1	17.0	12.0	29.0	17.0	12.0	29.0
11.0	63.0	74.0	13.0	66.2	79.2	14.0	67.0	81.0	14.0	82.0	96.0
171.0	393.6	564.6	167.8	383.4	551.2	194.7	431.0	625.7	197.7	446.0	643.7
80.5	188.0	268.5	79.6	188.8	268.4	119.0	224.0	343.0	119.0	222.0	341.0
66.2	22.1	88.3	72.2	23.4	95.6	85.0	33.0	118.0	85.0	33.0	118.0
69.0	191.0	260.0	77.0	205.0	282.0	128.0	226.0	354.0	166.0	241.0	407.0
81.4	121.6	203.0	81.4	115.6	197.0	107.0	179.0	286.0	107.0	179.0	286.0
974.6	**1546.2**	**2520.8**	**990.6**	**1572.3**	**2562.9**	**1271.2**	**1841.0**	**3112.2**	**1316.2**	**1882.0**	**3198.2**
0.5	0	0.5	0.5	0	0.5	2.0	5.0	7.0	2.0	5.0	7.0
39.6	48.7	88.3	40.9	49.0	89.9	60.0	91.0	151.0	60.0	108.0	168.0
88.8	46.5	135.3	92.4	48.0	140.4	100.5	87.0	187.5	100.5	87.0	187.5
77.9	80.7	158.6	83.8	84.2	168.0	97.0	128.0	225.0	97.0	128.0	225.0
7.2	16.9	24.1	8.4	18.1	26.5	12.0	23.0	35.0	12.0	43.0	55.0
90.0	46.6	136.6	90.0	50.4	140.4	110.2	84.0	194.2	110.2	86.0	196.2
59.5	142.4	201.9	59.4	143.6	203.0	68.0	174.0	242.0	68.0	179.0	247.0
435.0	401.0	836.0	457.7	410.8	868.5	494.0	488.0	982.0	525.0	538.0	1063.0
44.0	63.9	107.9	42.8	57.8	100.6	78.0	100.0	178.0	81.0	112.0	193.0
842.5	**846.7**	**1689.2**	**875.9**	**861.9**	**1737.8**	**1021.7**	**1180.0**	**2201.7**	**1055.7**	**1286.0**	**2341.7**
1817.1	**2392.9**	**4210.0**	**1866.5**	**2434.2**	**4300.7**	**2292.9**	**3021.0**	**5313.9**	**2371.9**	**3168.0**	**5539.9**

TABLE 3:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN *(CONTINUED)*
THOUSAND METRIC TONS

COUNTRY	ACTUAL PRODUCTION								
	1984			1985			1986		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A	**1259.8**	**1677.1**	**2936.9**	**1286.3**	**1577.9**	**2864.2**	**1260.2**	**1658.6**	**2918.8**
CANADA	**69.6**	**59.0**	**128.6**	**75.1**	**58.0**	**133.1**	**75.3**	**64.3**	**139.6**
OTHER AMERICAS									
ARGENTINA	27.3	21.4	48.7	27.1	16.8	43.9	30.7	24.4	55.1
BOLIVIA	0	0	0	0	0	0	0	0	0
BRAZIL	118.2	97.6	215.8	121.7	95.8	217.5	134.8	102.2	237.0
CHILE	2.8	1.1	3.9	4.1	2.0	6.1	4.0	2.3	6.3
COLOMBIA	38.6	10.7	49.3	38.3	9.9	48.2	38.1	9.2	47.3
COSTA RICA	3.5	0	3.5	3.5	0	3.5	4.2	0	4.2
ECUADOR	4.8	0	4.8	4.9	0	4.9	5.8	+	5.8
MEXICO	147.4	152.8	300.2	155.5	150.4	305.9	134.7	161.6	296.3
PERU	13.0	34.1	47.1	11.3	33.0	44.3	11.6	34.5	46.1
URUGUAY	1.6	3.4	5.0	1.8	4.0	5.8	1.8	3.2	5.0
VENEZUELA	10.2	5.5	15.7	12.5	6.0	18.5	13.4	6.5	19.9
TOTAL OTHER AMERICAS	**367.4**	**326.6**	**694.0**	**380.7**	**317.9**	**698.6**	**379.1**	**343.9**	**723.0**
JAPAN	**634.0**	**735.3**	**1369.3**	**645.4**	**757.3**	**1402.7**	**605.2**	**750.4**	**1355.6**
CHINA, PRC	**99.1**	**460.3**	**559.4**	**134.9**	**597.1**	**732.0**	**153.8**	**593.6**	**747.4**
OTHER ASIA									
BANGLADESH	0.3	0	0.3	0.5	0	0.5	0.5	0	0.5
INDIA	106.3	56.0	162.3	127.5	66.2	193.7	139.1	81.6	220.7
INDONESIA	71.5	73.3	144.8	76.9	70.3	147.2	86.2	78.0	164.2
KOREA, REP. OF	369.6	376.9	746.5	408.7	402.9	811.6	436.5	425.9	862.4
MALAYSIA	0	35.5	35.5	0	38.8	38.8	0	37.9	37.9
PAKISTAN	12.8	21.7	34.5	20.0	23.0	43.0	25.8	24.4	50.2
PHILIPPINES	20.5	13.0	33.5	22.0	12.2	34.2	20.0	15.0	35.0
SRI LANKA	1.0	0	1.0	1.2	0	1.2	1.3	0	1.3
TAIWAN	419.3	452.5	871.8	509.5	514.1	1023.6	605.6	626.5	1232.1
THAILAND	39.7	52.4	92.1	42.6	55.0	97.6	40.0	57.0	97.0
TOTAL OTHER ASIA	**1041.0**	**1081.3**	**2122.3**	**1208.9**	**1182.5**	**2391.4**	**1355.0**	**1346.3**	**2701.3**
MIDDLE EAST, AFRICA & OCEANIA									
AUSTRALIA/N.Z.	13.0	1.0	14.0	14.6	1.0	15.6	16.3	1.0	17.3
EGYPT	5.5	25.6	31.1	5.6	27.6	33.2	6.3	30.6	36.9
IRAN	13.5	20.0	33.5	13.5	25.0	38.5	9.5	26.0	35.5
ISRAEL	9.5	7.0	16.5	13.7	7.3	21.0	10.5	8.0	18.5
KENYA	4.5	0	4.5	5.1	0	5.1	5.1	1.0	6.1
NIGERIA	3.0	3.0	6.0	3.2	3.0	6.2	3.5	3.1	6.6
SOUTH AFRICA	46.5	29.7	76.2	52.8	27.4	80.2	54.2	29.5	83.7
TANZANIA	2.0	0	2.0	2.0	0	2.0	2.5	0	2.5
TOTAL M.E., A. & O.	**97.5**	**86.3**	**183.8**	**110.5**	**91.3**	**201.8**	**107.9**	**99.2**	**207.1**
TOTAL WORLD	**5224.0**	**6580.6**	**11804.6**	**5576.4**	**6859.7**	**12436.1**	**5705.7**	**7186.5**	**12892.2**

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1987			1988			3/1989			12/1990		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
1304.5	1789.8	3094.3	1340.9	1806.0	3146.9	1500.8	1998.3	3499.1	1526.9	1917.2	3444.1
71.5	58.2	129.7	75.3	58.6	133.9	124.4	77.0	201.4	124.4	77.0	201.4
28.1	29.4	57.5	27.1	21.6	48.7	65.3	38.0	103.3	68.3	38.0	106.3
0	0	0	0	0	0	5.0	0	5.0	5.0	0	5.0
136.3	111.8	248.1	125.8	113.9	239.7	174.4	134.6	309.0	180.4	143.2	323.6
4.4	2.7	7.1	4.6	2.8	7.4	10.7	8.0	18.7	10.7	8.0	18.7
38.6	10.3	48.9	39.2	10.4	49.6	59.2	14.0	73.2	65.3	27.0	92.3
4.2	0	4.2	4.3	0	4.3	8.0	0	8.0	8.0	0	8.0
5.6	+	5.6	6.5	+	6.5	10.1	7.0	17.1	10.1	7.0	17.1
148.2	187.0	335.2	151.9	193.0	344.9	198.7	257.0	455.7	211.7	288.0	499.7
11.9	32.6	44.5	13.4	32.3	45.7	21.5	38.0	59.5	21.5	38.0	59.5
2.0	3.4	5.4	2.1	3.6	5.7	5.0	5.5	10.5	5.0	5.5	10.5
14.3	8.0	22.3	18.1	12.0	30.1	23.0	23.0	46.0	23.0	23.0	46.0
393.6	385.2	778.8	393.0	389.6	782.6	580.9	525.1	1106.0	609.0	577.7	1186.7
608.8	731.8	1340.6	618.9	733.0	1351.9	827.0	938.3	1765.3	827.0	938.3	1765.3
209.0	637.0	846.0	290.0	678.0	968.0	445.0	880.0	1325.0	454.0	960.0	1414.0
0.5	0	0.5	0.6	0	0.6	0.7	0	0.7	0.7	18.0	18.7
160.3	105.7	266.0	199.7	121.5	321.2	345.0	324.0	669.0	369.0	416.0	785.0
87.0	84.9	171.9	100.6	86.6	187.2	154.0	170.0	324.0	199.0	170.0	369.0
479.5	490.6	970.1	580.1	534.7	1114.8	603.4	577.0	1180.4	712.4	599.0	1311.4
0	38.9	38.9	0	48.2	48.2	0	70.0	70.0	0	70.0	70.0
27.8	25.4	53.2	31.1	26.9	58.0	110.0	51.0	161.0	115.0	99.0	214.0
21.5	12.7	34.2	24.0	14.0	38.0	43.0	19.0	62.0	43.0	19.0	62.0
1.5	0	1.5	1.5	0	1.5	3.0	0	3.0	3.0	0	3.0
715.1	676.2	1391.3	732.7	697.5	1430.2	905.0	827.4	1732.4	988.0	859.4	1847.4
51.3	67.2	118.5	56.0	74.4	130.4	57.2	99.0	156.2	84.2	136.0	220.2
1544.5	1501.6	3046.1	1726.3	1603.8	3330.1	2221.3	2137.4	4358.7	2514.3	2386.4	4900.7
18.1	1.1	19.2	18.4	1.2	19.6	25.5	1.5	27.0	25.5	1.5	27.0
6.9	32.1	39.0	8.8	34.2	43.0	19.0	69.0	88.0	42.0	94.0	136.0
9.5	25.9	35.4	9.3	25.0	34.3	35.5	45.0	80.5	35.5	50.0	85.5
11.5	10.0	21.5	12.0	8.0	20.0	15.0	0	15.0	15.0	0	15.0
5.0	1.1	6.1	5.0	1.1	6.1	17.0	5.4	22.4	17.0	5.4	22.4
4.0	3.1	7.1	4.5	3.1	7.6	11.0	5.0	16.0	12.0	5.0	17.0
54.8	35.0	89.8	55.6	35.2	90.8	88.0	41.7	129.7	92.0	41.7	133.7
3.0	0	3.0	3.0	0	3.0	5.0	0	5.0	5.0	0	5.0
112.8	108.3	221.1	116.6	107.8	224.4	216.0	167.6	383.6	244.0	197.6	441.6
6061.9	7604.8	13666.7	6427.5	7811.0	14238.5	8208.3	9744.7	17953.0	8671.5	10222.2	18893.7

TABLE 4:
WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY

THOUSAND METRIC TONS

	ACTUAL PRODUCTION								
	1984			1985			1986		
COUNTRY	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE [a]									
AUSTRIA	14.8	109.0	123.8	14.9	109.0	123.9	DETAIL NO LONGER AVAILABLE		123.0
BELGIUM/NETHERLANDS	41.1	0	41.1	42.0	0	42.0			40.0
FINLAND	0	58.0	58.0	0	60.0	60.0			55.0
FRANCE	7.5	19.0	26.5	7.0	15.0	22.0			21.0
GERMANY, FED. REP	61.0	55.0	116.0	64.0	55.0	119.0			119.0
GREECE	6.0	0	6.0	7.0	0	7.0			7.7
ITALY	30.6	0	30.6	30.2	0	30.2			30.0
PORTUGAL	1.0	0	1.0	1.0	0	1.0			0.9
SPAIN	7.2	26.1	33.3	7.5	30.0	37.5			37.0
SWEDEN	0	40.1	40.1	0	33.0	33.0			22.1
TURKEY	0.3	4.5	4.8	1.0	7.0	8.0			8.0
UNITED KINGDOM	21.0	106.2	127.2	19.0	60.2	79.2			58.0
TOTAL WESTERN EUROPE	**190.5**	**417.9**	**608.4**	**193.6**	**369.2**	**562.8**	**190.6**	**331.1**	**521.7**
EASTERN EUROPE									
BULGARIA	4.1	37.1	41.2	4.1	37.6	41.7	4.2	38.0	42.2
CZECHOSLOVAKIA	20.5	38.6	59.1	20.9	39.6	60.5	18.0	37.2	55.2
GERMANY, DEM. REP	35.2	135.0	170.2	35.4	132.4	167.8	35.6	122.1	157.7
HUNGARY	0	7.0	7.0	0	5.5	5.5	0	5.5	5.5
POLAND	19.5	56.0	75.5	20.5	50.6	71.1	19.1	52.9	72.0
ROMANIA	8.5	51.0	59.5	8.8	53.0	61.8	9.0	55.0	64.0
USSR	257.0	345.0	602.0	246.0	340.0	586.0	246.0	343.0	589.0
YUGOSLAVIA	14.0	55.0	69.0	14.9	55.0	69.9	15.1	56.0	71.1
TOTAL EASTERN EUROPE	**358.8**	**724.7**	**1083.5**	**350.6**	**713.7**	**1064.3**	**347.0**	**709.7**	**1056.7**
TOTAL EUROPE	**549.3**	**1142.6**	**1691.9**	**544.2**	**1082.9**	**1627.1**	**537.6**	**1040.8**	**1578.4**

Y Yarn+monofilaments.

S Staple+tow+fiberfill

a. Starting in 1986 country detail is no longer available due to disclosure.

These totals do not include data for the Indonesian pilot plant nor production of artificial (cellulosic) fiber in North Korea.

Production and producing capacity by country, divided between rayon and acetate yarn, is given on pages 112 - 113.

Also note page 116 for data on production of cigarette tow.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1987			1988			3/1989			12/1990		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
		120.0			132.0			*137.0*			*135.0*
		40.0			41.0			*44.0*			*43.0*
		54.0			60.5			*65.0*			*60.0*
DETAIL NO LONGER AVAILABLE		23.0	DETAIL NO LONGER AVAILABLE		15.0	DETAIL NO LONGER AVAILABLE		*23.0*	DETAIL NO LONGER AVAILABLE		*3.0*
		118.0			122.0			*131.0*			*124.0*
		7.8			6.8			*8.0*			*8.0*
		29.0			32.0			*43.0*			*43.0*
		1.2			0.7			*2.0*			*2.0*
		35.0			37.0			*44.0*			*39.0*
		23.0			20.0			*20.5*			*20.5*
		8.0			8.7			*9.5*			*9.5*
		55.0			64.0			*75.0*			*70.0*
185.0	**329.0**	**514.0**	**188.2**	**351.5**	**539.7**	***217.0***	***385.0***	***602.0***	***208.0***	***349.0***	***557.0***
4.3	29.0	33.3	4.4	24.0	28.4	*5.0*	*42.0*	*47.0*	*5.0*	*42.0*	*47.0*
18.4	36.8	55.2	18.6	37.0	55.6	*27.0*	*46.0*	*73.0*	*27.0*	*70.0*	*97.0*
35.9	120.7	156.6	36.3	124.8	161.1	*39.0*	*160.0*	*199.0*	*39.0*	*173.0*	*212.0*
0	4.1	4.1	0	4.9	4.9	*10.0*	*10.0*	*20.0*	*10.0*	*10.0*	*20.0*
19.3	54.0	73.3	20.4	54.0	74.4	*32.0*	*71.5*	*103.5*	*32.0*	*85.0*	*117.0*
9.0	57.0	66.0	9.1	66.5	75.6	*11.0*	*95.0*	*106.0*	*11.0*	*95.0*	*106.0*
246.5	345.0	591.5	263.8	337.2	601.0	*290.0*	*353.0*	*643.0*	*290.0*	*353.0*	*643.0*
13.3	50.0	63.3	14.0	54.0	68.0	*17.0*	*60.0*	*77.0*	*17.0*	*60.0*	*77.0*
346.7	**696.6**	**1043.3**	**366.6**	**702.4**	**1069.0**	***431.0***	***837.5***	***1268.5***	***431.0***	***888.0***	***1319.0***
531.7	**1025.6**	**1557.3**	**554.8**	**1053.9**	**1608.7**	***648.0***	***1222.5***	***1870.5***	***639.0***	***1237.0***	***1876.0***

TABLE 4:
WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY *(CONTINUED)*
THOUSAND METRIC TONS

	ACTUAL PRODUCTION								
	1984			1985			1986		
COUNTRY	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	108.4	176.7	285.1	92.8	160.2	253.0	97.4	183.3	280.7
CANADA	10.0	33.9	43.9	8.0	26.9	34.9	8.8	29.1	37.9
OTHER AMERICAS									
ARGENTINA	1.8	1.5	3.3	1.5	1.5	3.0	3.0	4.9	7.9
BRAZIL	17.7	29.0	46.7	20.1	26.5	46.6	16.8	33.6	50.4
CHILE	1.2	3.7	4.9	1.3	3.8	5.1	1.3	3.9	5.2
COLOMBIA	1.8	0	1.8	1.8	0	1.8	1.8	0	1.8
CUBA	2.0	3.5	5.5	2.1	6.4	8.5	2.6	8.7	11.3
MEXICO	11.6	4.0	15.6	12.6	0	12.6	12.0	0	12.0
PERU	1.7	0	1.7	1.7	0	1.7	0.8	0	0.8
URUGUAY	1.0	0	1.0	1.0	0	1.0	1.3	0	1.3
VENEZUELA	1.9	0	1.9	2.1	0	2.1	1.5	0	1.5
TOTAL OTHER AMERICAS	40.7	41.7	82.4	44.2	38.2	82.4	41.1	51.1	92.2
JAPAN	110.8	266.6	377.4	104.6	283.3	387.9	102.8	217.2	320.0
CHINA, PRC	45.0	108.0	153.0	50.0	130.0	180.0	60.0	130.0	190.0
OTHER ASIA									
BANGLADESH	1.0	1.0	2.0	1.0	1.0	2.0	1.1	1.1	2.2
INDIA	41.7	100.1	141.8	46.9	95.0	141.9	49.6	90.4	140.0
INDONESIA	0	36.6	36.6	0	40.7	40.7	0	46.1	46.1
KOREA, REP. OF	12.8	0	12.8	13.8	0	13.8	13.9	0	13.9
PAKISTAN	3.1	0	3.1	3.2	0	3.2	3.2	0	3.2
TAIWAN	2.5	125.5	128.0	2.4	119.5	121.9	2.8	117.1	119.9
THAILAND	0	18.0	18.0	0	19.0	19.0	0	19.0	19.0
TOTAL OTHER ASIA	61.1	281.2	342.3	67.3	275.2	342.5	70.6	273.7	344.3
MIDDLE EAST, AFRICA & OCEANIA									
EGYPT	7.0	4.6	11.6	7.0	4.7	11.7	7.0	4.7	11.7
IRAQ	3.0	5.5	8.5	3.0	5.5	8.5	3.0	5.5	8.5
TOTAL M.E., A & O	10.0	10.1	20.1	10.0	10.2	20.2	10.0	10.2	20.2
TOTAL WORLD	935.3	2060.8	2996.1	921.1	2006.9	2928.0	928.3	1935.4	2863.7

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1987			1988			3/1989			12/1990		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
86.7	**187.9**	**274.6**	**97.0**	**181.6**	**278.6**	***110.7***	***215.9***	***326.6***	***115.2***	***223.6***	***338.8***
8.5	**28.5**	**37.0**	**9.3**	**32.8**	**42.1**	***14.5***	***38.0***	***52.5***	***14.5***	***38.0***	***52.5***
3.0	2.5	5.5	3.0	0	3.0	*10.8*	*5.0*	*15.8*	*10.8*	*5.0*	*15.8*
15.0	33.9	48.9	14.9	36.6	51.5	*21.1*	*41.7*	*62.8*	*21.1*	*41.7*	*62.8*
1.3	4.0	5.3	1.3	4.1	5.4	*1.5*	*5.4*	*6.9*	*1.5*	*5.4*	*6.9*
2.3	0	2.3	2.4	0	2.4	*3.5*	*0*	*3.5*	*3.5*	*0*	*3.5*
1.6	8.8	10.4	0.7	8.9	9.6	*3.0*	*9.0*	*12.0*	*3.0*	*9.0*	*12.0*
12.3	0	12.3	12.5	0	12.5	*15.8*	*0*	*15.8*	*15.8*	*0*	*15.8*
1.1	0	1.1	1.3	0	1.3	*1.7*	*0*	*1.7*	*1.7*	*0*	*1.7*
1.2	0	1.2	1.3	0	1.3	*1.9*	*0*	*1.9*	*1.9*	*0*	*1.9*
2.2	0	2.2	2.2	0	2.2	*2.4*	*0*	*2.4*	*2.4*	*0*	*2.4*
40.0	**49.2**	**89.2**	**39.6**	**49.6**	**89.2**	***61.7***	***61.1***	***122.8***	***61.7***	***61.1***	***122.8***
99.4	**201.1**	**300.5**	**99.8**	**190.8**	**290.6**	***128.3***	***214.9***	***343.2***	***118.2***	***214.9***	***333.1***
61.0	**132.0**	**193.0**	**50.0**	**110.0**	**160.0**	***130.0***	***160.0***	***290.0***	***130.0***	***160.0***	***290.0***
1.3	1.3	2.6	1.2	1.1	2.3	*1.5*	*5.0*	*6.5*	*1.5*	*5.0*	*6.5*
50.7	116.8	167.5	52.6	121.5	174.1	*78.9*	*136.1*	*215.0*	*78.9*	*136.1*	*215.0*
0	49.9	49.9	0	51.4	51.4	*0*	*67.0*	*67.0*	*0*	*67.0*	*67.0*
14.1	0	14.1	15.2	0	15.2	*17.0*	*28.1*	*45.1*	*17.0*	*28.1*	*45.1*
3.3	0	3.3	3.3	0	3.3	*3.3*	*0*	*3.3*	*3.3*	*0*	*3.3*
2.4	117.2	119.6	2.6	123.2	125.8	*4.0*	*149.4*	*153.4*	*4.0*	*149.4*	*153.4*
0	21.4	21.4	0	24.0	24.0	*0*	*30.0*	*30.0*	*0*	*30.0*	*30.0*
71.8	**306.6**	**378.4**	**74.9**	**321.2**	**396.1**	***104.7***	***415.6***	***520.3***	***104.7***	***415.6***	***520.3***
7.0	4.8	11.8	7.0	5.0	12.0	*7.0*	*5.4*	*12.4*	*7.0*	*5.4*	*12.4*
3.1	5.5	8.6	2.9	5.5	8.4	*3.5*	*6.5*	*10.0*	*3.5*	*6.5*	*10.0*
10.1	**10.3**	**20.4**	**9.9**	**10.5**	**20.4**	***10.5***	***11.9***	***22.4***	***10.5***	***11.9***	***22.4***
909.2	1941.2	2850.4	935.3	1950.4	2885.7	*1208.4*	*2339.9*	*3548.3*	*1193.8*	*2362.1*	*3555.9*

TABLE 5:
WORLDWIDE RAYON VS. ACETATE FILAMENT YARN PRODUCTION & PRODUCING CAPACITY BY COUNTRY
THOUSAND METRIC TONS

COUNTRY	ACTUAL PRODUCTION								
	1984			1985			1986		
	H	R&C	A	H	R&C	A	H	R&C	A
WESTERN EUROPE									
AUSTRIA	10	5	0	10	5	0	DETAIL NO LONGER AVAILABLE		
BELGIUM/NETHERLANDS	18	16	7	18	17	7			
FRANCE	0	7	0	0	7	0			
GERMANY, FED. REP. OF	40	21	0	40	24	0			
ITALY [a]	11	2	18	10	2	18			
SPAIN	+	4	3	+	4	3			
UNITED KINGDOM	0	0	21	0	0	19			
OTHER [b]	0	7	0	0	9	0			
TOTAL WESTERN EUROPE	**79**	**62**	**49**	**78**	**68**	**47**	**71**	**69**	**51**
EASTERN EUROPE									
BULGARIA	0	4	0	0	4	0	0	4	0
CZECHOSLOVAKIA	8	12	0	8	13	0	8	10	0
GERMANY, DEM. REP.	13	22	0	14	22	0	14	22	0
HUNGARY	0	0	0	0	0	0	0	0	0
POLAND	5	15	0	5	15	0	5	14	0
ROMANIA	5	3	0	5	4	0	5	4	0
USSR [a]	120	80	57	116	80	50	116	80	50
YUGOSLAVIA	7	7	0	8	7	0	8	8	0
TOTAL EASTERN EUROPE	**158**	**143**	**57**	**156**	**145**	**50**	**156**	**142**	**50**
U.S.A.	**13**	**6**	**90**	**9**	**6**	**78**	**7**	**6**	**84**
CANADA	**0**	**0**	**10**	**0**	**0**	**8**	**0**	**0**	**9**
OTHER AMERICAS									
ARGENTINA	0	0	2	0	0	2	0	0	3
BRAZIL	4	12	2	4	15	1	1	15	0
CHILE	0	1	0	0	1	0	0	1	0
COLOMBIA	0	0	2	0	0	2	0	0	2
CUBA	2	0	0	2	0	0	3	0	0
MEXICO	2	3	6	3	3	7	2	3	7
PERU	0	0	2	0	0	2	0	0	1
URUGUAY	0	0	1	0	0	1	0	0	1
VENEZUELA	0	0	2	0	0	2	0	0	2
TOTAL OTHER AMERICAS	**8**	**16**	**17**	**9**	**19**	**17**	**6**	**19**	**16**
JAPAN [a]	**2**	**78**	**31**	**2**	**74**	**28**	**2**	**74**	**27**
CHINA, PRC	**0**	**45**	**0**	**0**	**50**	**0**	**0**	**60**	**0**
OTHER ASIA									
BANGLADESH	0	1	0	0	1	0	0	1	0
INDIA	8	33	1	7	40	+	5	44	+
KOREA, REP. OF	0	11	2	0	12	2	0	12	2
PAKISTAN	0	0	3	0	0	3	0	0	3
TAIWAN	0	2	0	0	2	0	0	3	0
TOTAL OTHER ASIA	**8**	**47**	**6**	**7**	**55**	**5**	**5**	**60**	**5**
OTHER M.E., A & O [c]	**0**	**10**	**0**	**0**	**10**	**0**	**0**	**10**	**0**
WORLD TOTAL	**268**	**407**	**260**	**261**	**427**	**233**	**247**	**440**	**242**

H	High tenacity (tire & industrial type) viscose rayon yarn.
R	Regular + intermediate tenacity viscose rayon yarn
C	Cuprammonium rayon yarn
A	Acetate + triacetate yarn
a.	Produces both regular + intermediate rayon yarn and cuprammonium rayon yarn
b.	Comprises Greece, Portugal and Turkey
c.	Comprises Egypt and Iraq.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1987			1988			3/1989			12/1990		
H	R&C	A	H	R&C	A	H	R&C	A	H	R&C	A
DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE		
67	**70**	**48**	**74**	**62**	**52**	***85***	***77***	***55***	***79***	***74***	***55***
0	4	0	0	4	0	*0*	*5*	*0*	*0*	*5*	*0*
8	10	0	8	10	0	*11*	*16*	*0*	*11*	*16*	*0*
14	22	0	14	22	0	*15*	*24*	*0*	*15*	*24*	*0*
0	0	0	0	0	0	*0*	*10*	*0*	*0*	*10*	*0*
5	15	0	5	15	0	*9*	*23*	*0*	*9*	*23*	*0*
5	4	0	6	4	0	*6*	*5*	*0*	*6*	*5*	*0*
117	80	50	119	85	60	*120*	*100*	*70*	*120*	*100*	*70*
6	7	0	7	8	0	*8*	*9*	*0*	*8*	*9*	*0*
155	**142**	**50**	**159**	**148**	**60**	***169***	***192***	***70***	***169***	***192***	***70***
7	**6**	**74**	**7**	**6**	**84**	***23***	***6***	***82***	***23***	***6***	***86***
0	**0**	**9**	**0**	**0**	**9**	***0***	***0***	***15***	***0***	***0***	***15***
0	0	3	0	0	3	*2*	*6*	*3*	*2*	*6*	*3*
0	15	0	0	15	0	*2*	*17*	*2*	*2*	*17*	*2*
0	1	0	0	1	0	*0*	*1*	*0*	*0*	*1*	*0*
0	0	2	0	0	2	*0*	*0*	*4*	*0*	*0*	*4*
2	0	0	1	0	0	*3*	*0*	*0*	*3*	*0*	*0*
2	3	7	2	3	8	*3*	*4*	*9*	*3*	*4*	*9*
0	0	1	0	0	1	*0*	*0*	*2*	*0*	*0*	*2*
0	0	1	0	0	1	*0*	*0*	*2*	*0*	*0*	*2*
0	0	2	0	0	2	*0*	*0*	*2*	*0*	*0*	*2*
4	**19**	**16**	**3**	**19**	**17**	***10***	***28***	***24***	***10***	***28***	***24***
2	**71**	**27**	**1**	**72**	**27**	***10***	***84***	***34***	***0***	***84***	***34***
0	**61**	**0**	**0**	**50**	**0**	***30***	***100***	***0***	***30***	***100***	***0***
0	1	0	0	1	0	*0*	*2*	*0*	*0*	*2*	*0*
5	46	+	9	44	0	*21*	*54*	*4*	*21*	*54*	*4*
0	12	2	0	12	3	*0*	*12*	*5*	*0*	*12*	*5*
0	0	3	0	0	3	*0*	*0*	*3*	*0*	*0*	*3*
0	2	0	0	3	0	*0*	*4*	*0*	*0*	*4*	*0*
5	**61**	**5**	**9**	**60**	**6**	***21***	***72***	***12***	***21***	***72***	***12***
0	**10**	**0**	**0**	**10**	**0**	***0***	***10***	***0***	***0***	***10***	***0***
240	**440**	**229**	**253**	**427**	**255**	***348***	***569***	***292***	***332***	***566***	***296***

TABLE 6:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY FIBER EXCEPT OLEFIN
THOUSAND METRIC TONS

	ACTUAL PRODUCTION								
	1984			1985			1986		
FIBER & AREA	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC+MODACRYLIC									
WEST EUROPE	1	844	845	1	901	902	1	912	913
EAST EUROPE	0	223	223	0	245	245	0	257	257
U S A	0	304	304	0	286	286	0	279	279
CANADA	0	0	0	0	0	0	0	0	0
OTHER AMERICAS	0	140	140	0	134	134	0	154	154
JAPAN	2	367	369	2	380	382	3	394	397
CHINA, PRC	0	69	69	0	73	73	0	74	74
OTHER ASIA	0	314	314	0	319	319	0	327	327
MIDDLE EAST, AFRICA & OCEANIA	0	12	12	0	16	16	0	18	18
TOTAL	**3**	**2273**	**2276**	**3**	**2354**	**2357**	**4**	**2415**	**2419**
NYLON+ARAMID [a]									
WEST EUROPE	503	144	647	530	152	682	517	141	658
EAST EUROPE	527	86	613	539	93	632	559	99	658
U S A	716	379	1095	687	375	1062	728	412	1140
CANADA	52	14	66	54	12	66	54	14	68
OTHER AMERICAS	158	10	168	175	8	183	170	11	181
JAPAN	288	19	307	291	24	315	260	19	279
CHINA, PRC	57	1	58	70	1	71	74	1	75
OTHER ASIA	344	3	347	367	5	372	387	4	391
MIDDLE EAST, AFRICA & OCEANIA	51	2	53	56	2	58	57	2	59
TOTAL	**2696**	**658**	**3354**	**2769**	**672**	**3441**	**2806**	**703**	**3509**
POLYESTER									
WEST EUROPE	431	462	893	451	466	917	447	479	926
EAST EUROPE	187	383	570	207	409	616	239	429	668
U S A	544	994	1538	599	917	1516	532	968	1500
CANADA	18	45	63	21	46	67	21	50	71
OTHER AMERICAS	208	177	385	205	176	381	208	179	387
JAPAN	327	320	647	329	323	652	322	310	632
CHINA, PRC	35	320	355	55	443	498	70	456	526
OTHER ASIA	697	763	1460	842	858	1700	968	1014	1982
MIDDLE EAST, AFRICA & OCEANIA	46	72	118	54	73	127	51	80	131
TOTAL	**2493**	**3536**	**6029**	**2763**	**3711**	**6474**	**2858**	**3965**	**6823**
OTHER FIBERS EXCEPT OLEFIN [b]									
WEST EUROPE	6	9	15	6	9	15	5	9	14
EAST EUROPE	1	4	5	1	3	4	1	3	4
U S A	+	+	+	+	+	+	+	+	+
CANADA	+	0	+	+	0	+	+	0	+
OTHER AMERICAS	1	0	1	1	0	1	1	0	1
JAPAN	17	29	46	23	30	53	20	27	47
CHINA, PRC	7	70	77	10	80	90	10	63	73
OTHER ASIA	+	1	1	+	1	1	+	1	1
MIDDLE EAST, AFRICA & OCEANIA	0	0	0	0	0	0	0	0	0
TOTAL	**32**	**113**	**145**	**41**	**123**	**164**	**37**	**103**	**140**
TOTAL FIBERS ABOVE									
WEST EUROPE	941	1459	2400	988	1528	2516	970	1541	2511
EAST EUROPE	715	696	1411	747	750	1497	799	788	1587
U S A	1260	1677	2937	1286	1578	2864	1260	1659	2919
CANADA	70	59	129	75	58	133	75	64	139
OTHER AMERICAS	367	327	694	381	318	699	379	344	723
JAPAN	634	735	1369	645	757	1402	605	750	1355
CHINA, PRC	99	460	559	135	597	732	154	594	748
OTHER ASIA	1041	1081	2122	1209	1183	2392	1355	1346	2701
MIDDLE EAST, AFRICA & OCEANIA	97	86	183	110	91	201	108	100	208
WORLD TOTAL	**5224**	**6580**	**11804**	**5576**	**6860**	**12436**	**5705**	**7186**	**12891**

Y	Yarn+monofilaments
S	Staple+tow+fiberfill
+	Nominal quantities

a. U S A nylon producing capacity data do not include aramid

b. Other fibers are alginate, azlon, spandex or elastomer, saran, TFE-fluorocarbon, vinal and vinyon. U S A production data do not include spandex.

ACTUAL PRODUCTION						PRODUCING CAPACITY						% UTILIZATION [c]	
1987			1988			3/1989			12/1990				
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S
1	919	920	1	904	905	1	1044	1045	1	1054	1055	100.0	87.2
0	271	271	0	274	274	0	396	396	0	436	436	0	72.5
0	268	268	0	267	267	0	291	291	0	294	294	0	92.4
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	180	180	0	179	179	0	213	213	0	235	235	0	84.5
3	404	407	3	395	398	6	442	448	6	442	448	50.0	93.2
0	75	75	0	85	85	0	125	125	0	200	200	0	62.0
0	344	344	0	351	351	0	418	418	0	456	456	0	84.8
0	20	20	0	17	17	0	20	20	0	25	25	0	71.4
4	**2481**	**2485**	**4**	**2472**	**2476**	**7**	**2949**	**2956**	**7**	**3142**	**3149**	**57.1**	**84.7**
518	137	655	523	147	670	655	193	848	674	184	858	78.7	70.6
579	100	679	592	102	694	684	120	804	704	120	824	86.9	83.3
770	450	1220	784	427	1211	877	519	1396	923	525	1448	89.9	87.2
51	13	64	54	13	67	97	24	121	97	24	121	53.7	54.2
165	10	175	160	10	170	273	23	296	273	23	296	62.1	44.4
262	17	279	267	15	282	323	27	350	323	27	350	80.5	63.0
79	1	80	100	0	100	110	5	115	119	10	129	79.0	20.0
429	6	435	470	6	476	590	8	598	631	32	663	74.0	60.0
60	2	62	62	2	64	101	4	105	105	4	109	57.1	57.1
2913	**736**	**3649**	**3012**	**722**	**3734**	**3710**	**923**	**4633**	**3849**	**949**	**4798**	**80.0**	**81.1**
451	481	932	462	514	976	607	592	1199	633	632	1265	75.7	80.1
263	473	736	283	483	766	337	656	993	351	722	1073	78.0	71.9
535	1071	1606	557	1112	1669	624	1188	1812	604	1098	1702	87.3	91.5
20	45	65	21	45	66	27	53	80	27	53	80	74.1	84.9
227	195	422	232	200	432	307	289	596	335	320	655	74.7	69.1
323	283	606	329	293	622	468	370	838	468	370	838	69.6	75.2
120	496	616	180	525	705	320	675	995	320	675	995	46.1	80.1
1116	1150	2266	1256	1244	2500	1630	1711	3341	1882	1898	3780	77.0	74.6
53	87	140	55	89	144	115	144	259	140	169	309	52.2	63.3
3108	**4281**	**7389**	**3375**	**4505**	**7880**	**4435**	**5678**	**10113**	**4760**	**5937**	**10697**	**75.3**	**79.2**
5	9	14	5	9	14	8	12	20	8	12	20	62.5	75.0
1	3	4	1	3	4	1	8	9	1	8	9	100.0	37.5
+	+	+	+	+	+	+	+	+	+	+	+	0	0
+	0	+	+	0	+	+	0	+	+	0	+	0	0
1	0	1	1	0	1	1	0	1	1	0	1	66.7	0
20	28	48	20	30	50	30	99	129	30	99	129	66.7	30.3
10	65	75	10	68	78	15	75	90	15	75	90	66.7	86.7
0	2	2	0	2	2	1	0	1	1	0	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	**107**	**144**	**37**	**112**	**149**	**56**	**194**	**250**	**56**	**194**	**250**	**54.0**	**57.7**
975	1546	2521	991	1574	2565	1271	1841	3112	1316	1882	3198	77.8	83.5
843	847	1690	876	862	1738	1022	1180	2202	1056	1286	2342	83.3	73.0
1305	1789	3094	1341	1806	3147	1501	1998	3499	1527	1917	3444	87.8	91.7
71	58	129	75	58	133	124	77	201	124	77	201	57.3	75.3
393	385	778	393	389	782	581	525	1106	609	578	1187	61.8	72.0
608	732	1340	619	703	1322	827	938	1765	827	938	1765	74.1	79.1
209	637	846	290	678	968	445	880	1325	454	960	1414	63.7	73.6
1545	1502	3047	1726	1603	3329	2221	2137	4358	2514	2386	4900	75.9	76.7
113	109	222	117	108	225	216	168	384	245	198	443	54.3	70.3
6062	**7605**	**13667**	**6428**	**7811**	**14239**	**8208**	**9744**	**17952**	**8672**	**10222**	**18894**	**77.3**	**76.4**

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c. Based on 1988 production and an average March 1988 and March 1989 producing capacity. Refer to June 1988 ***Textile Organon*** for March 1988 producing capacity.

The regional totals here are the same as those on pages 104 - 107

TABLE 7:
WORLDWIDE GLASS FIBER PRODUCTION & PRODUCING CAPACITY
THOUSAND METRIC TONS

COUNTRY	PRODUCTION					CAPACITY	
	1984	1985	1986	1987	1988	3/89	12/90
WEST EUROPE EAST EUROPE [a] }	300	320	364	407	465	*440* *100*	*500* *110*
U S A	632	610	630	725	730	*806*	*875*
OTHER AMERICAS	39	32	35	50	65	*78*	*78*
JAPAN	249	273	240	300	340	*350*	*357*
MIDDLE EAST, AFRICA & OCEANIA [b]	14	28	30	35	55	*65*	*130*
TOTAL ABOVE	**1234**	**1263**	**1299**	**1517**	**1655**	***1839***	***2050***
CHINA P R C	40	50	50	55	65	*95*	*100*
U S S R	75	85	100	110	125	*185*	*200*

Glass fiber is defined on page 118 of this issue The glass fiber producing capacity, is based on March 1989 and December 1990 annual projections

a. The data for East Europe do not include estimates for the U S S R

b. The Other Asia, Africa & Oceania countries are Australia, India, Korea, Rep of, South Africa and Taiwan

TABLE 8:
ESTIMATED WORLDWIDE CIGARETTE TOW PRODUCTION
THOUSAND METRIC TONS

AREA	1984	1985	1986	1987	1988
EUROPE [a]	80	83	104	107	124
U S A OTHER AMERICAS [b] }	187	210	216	247	249
ASIA [c]	47	44	42	46	49
WORLD TOTAL	**314**	**337**	**362**	**400**	**422**

a. Belgium, Germany, Fed Rep, U S S R & United Kingdom

b. Brazil, Canada, Colombia, Mexico & Venezuela

c. Japan and Korea, Rep of

TABLE 9:
WORLDWIDE OLEFIN FIBER PRODUCTION
THOUSAND METRIC TONS

COUNTRY	1984	1985	1986	1987	1988
WEST EUROPE					
AUSTRIA	21	24	26	27	30
BENELUX	97	120	141	160	170
DENMARK	14	25	26	30	31
FINLAND	14	24	24	18	20
FRANCE	29	50	55	58	61
GREECE/CYPRUS	11	14	15	16	20
GERMANY, FED. REP.	91	99	104	115	125
IRELAND	9	9	9	10	10
ITALY	91	127	130	130	135
NORWAY	4	4	4	5	5
PORTUGAL	30	30	30	36	36
SPAIN	37	37	41	49	54
SWEDEN	4	6	6	6	7
SWITZERLAND	8	14	17	20	23
TURKEY	6	6	6	7	7
UNITED KINGDOM	90	95	110	125	130
TOTAL WEST EUROPE	556	684	744	812	864
EAST EUROPE					
CZECHOSLOVAKIA	12	12	12	12	12
HUNGARY	16	17	20	22	25
POLAND	16	16	17	17	17
U.S.S.R.	20	22	24	24	25
U.S.A.					
YARN+MONOFIL	175	192	213	224	249
STAPLE	113	137	152	164	165
FILM FIBER	154	233	263	299	288
CANADA	45	48	55	61	62
OTHER AMERICAS					
ARGENTINA	17	15	19	24	27
BRAZIL	39	39	40	40	41
CHILE	4	5	6	7	7
EL SALVADOR GUATEMALA HONDURAS }	3	3	3	3	3
MEXICO	26	26	27	27	28
NICARAGUA	1	1	1	1	1
PERU	6	6	7	7	7
URUGUAY	2	2	2	2	2
JAPAN					
YARN+MONOFIL	14	14	11	14	16
STAPLE	32	35	37	36	38
FILM FIBER	NA	NA	NA	NA	NA
OTHER ASIA					
KOREA, REP. OF	1	1	0	0	0
PHILIPPINES	3	3	3	3	3
TAIWAN	63	71	77	78	79
MIDDLE EAST, AFRICA & OCEANIA					
AUSTRALIA	22	23	25	26	28
SOUTH AFRICA	5	5	5	5	5
OTHER	1	1	1	1	1

The olefin data shown include the "official" country data published by a government, an association or other statistical agency as well as an estimate of the olefin fiber, mainly slit and split film fiber, believed to have been produced in the country. For example, although U.S. olefin production data include yarn, monofil, staple, film fiber, and spunbonded polypropylene, published Italian and Japanese olefin data show the production of yarn+monofilaments and staple+tow but no data on production of film fiber, such as that used in sacks, fishing nets, and carpet backing. Estimates were made in the latter example.

Due to the inconsistencies in olefin production reporting, we have made no attempt to show a worldwide total.

1989 WORLDWIDE DIRECTORY OF MANUFACTURED FIBER PRODUCERS

NOTES & DEFINITIONS

This directory of producers lists each country separately and is divided into the following categories:

(1) Artificial (Cellulosic) plus
Synthetic (Noncellulosic) fibers
(2) Olefin fiber
(3) Glass fiber

The locality shown represents a plant site.

The generic fiber names used in this survey are those established by the U.S. Federal Trade Commission (FTC). The *italicized* words are trademarks. All other fiber names are generic and appear in regular type.

● Indicates a company producing olefin fiber as well as other manufactured fiber(s). For example, Mitsubishi Rayon Co. produces olefin fiber in Japan as well as acrylic and polyester. The acrylic and polyester entries for this company are in one section and the olefin entry is shown in the Olefin fiber section.

* Indicates a new plant, in the planning stage or under construction, or a new facility for producing a new product at an existing plant. Such facilities are not expected to be operable until 1990 or later.

Yarn means filament yarn.
Monofil means an extruded monofilament and may be either a round or rectangular (ribbon) cross-section. Monofilaments for bristles are excluded.
Film includes **Slit**: tape produced by slitting an already attenuated wide sheet of olefin film; and **Split:** fibrillated slit film.
Not included in this survey is the slit film used for decorative or tying ribbon and such.
Captive means that most or all of the fiber produced is consumed by the company in a vertical operation.

GENERIC NAMES & TRADEMARKS

The following are generic names, in bold type, and a brief description of the fibers covered by each name is shown in regular type.

GLASS FIBER

This fiber is made in two primary forms: continuous strand and staple sliver. Continuous strand is drawn fiber (i.e., from a textile-type bushing), while staple sliver, which is produced in relatively small amounts, is a blown fiber.

Glass fiber is produced and sold as filament yarn, strand, roving, mat, chopped strand, milled fiber and staple yarn & sliver. In addition, there are two primary uses for glass fiber: Textile, used by textile mills in conventional constructions (e.g., drapery and tire cord) or Non-Textile, used for nonconventional constructions (e.g., reinforced plastics and roofing shingles).

For additional information, see the definitions on page 239 of the November 1988 ***Textile Organon***.

ARTIFICIAL (CELLULOSIC) FIBERS

Acetate: Cellulose acetate. Cigarette filtration tow is excluded.
Triacetate: Cellulose acetate, wherein not less than 92% of the hydroxyl groups are acetylated.
Rayon: Regenerated cellulose, including substitutions for not more than 15% of the hydrogens of the hydroxyl groups. Includes high wet modulus fiber.
Cupra: Cuprammonium rayon.

The viscose rayon yarns are identified as **ind** (industrial or high tenacity yarn) and **reg** (regular or textile yarn).

SYNTHETIC (NONCELLULOSIC) FIBERS

Acrylic: At least 85% acrylonitrile by weight.
Modacrylic: 35% to 84% acrylonitrile by weight, except when it qualifies as rubber.
Azlon: Regenerated natural protein.
Nylon: A long-chain synthetic polyamide in which less than 85% of the amide linkages are attached directly to two aromatic rings. The types are identified as 6, 66, etc. Where a company produces both type 6 and 66, the designation 6/66 is used.
Aramid: A long-chain synthetic polyamide in which at least 85% of the amide linkages are attached directly to two aromatic rings.
Olefin: At least 85% ethylene, propylene or other olefin units by weight, except amorphous (noncrystalline) polyolefins qualifying as rubber. **E** means Polyethylene and **P** means Polypropylene. Also see adjoining notes on olefin fiber.
Polyester: At least 85% by weight of an ester of a substituted aromatic carboxylic acid, including but not restricted to substituted terephthalate units, and parasubstituted hydroxybenzoate units.
Saran: At least 80% vinylidene chloride by weight.
Spandex: At least 85% of segmented polyurethane.
Vinal: At least 50% by weight vinyl alcohol and wherein the vinyl alcohol plus acetal units are at least 85% by weight.
Vinyon: At least 85% vinyl chloride by weight.

Other manufactured fibers included in this survey, but not listed by the FTC, are **Polycarbonate** (U.S.A.), **Polychlal** (Japan), **Promix** (Japan) and **TFE-&FEP-fluorocarbon** (Fluoro)(Japan, U.S.A. & U.S.S.R.).

Not covered in this survey are fibers which would fall under the FTC's generic designations of rubber, lastrile, metallic and novoloid. Fibers falling under the FTC designations of anidex and nytril are no longer produced.

Carbon fibers are not included in this survey.

International Standard #2076, "Generic Names of Man-Made Fibres," as established by the International Organization for Standardization, lists some 23 names, of which the following are similar to the FTC designations: cupro, viscose, acetate, triacetate, acrylic, modacrylic, nylon or polyamide, polyester and glass. The IOS also lists modal (regenerated cellulose obtained by processes giving a high tenacity and a high wet modulus), alginate (metallic salts of alginic acid), chlorofibre (similar to the FTC's saran and vinyon), elastane (similar to the FTC's spandex), elastodiene, fluorofibre, polycarbamide, polyethylene & polypropylene (similar to the FTC's olefin), polyurethane, trivinyl and vinylal (similar to the FTC's vinal).

ALBANIA

(Producer not yet known)

Acrylic	(staple)
Polyester	(yarn & staple')

ARGENTINA

COAFI S A

Polyester	Buenos Aires (yarn)

DUCILO S A I C

Nylon 66	Berazategui & Mercedes *Nylon Ducilo* (yarn)
Spandex	Mercedes (fused multifil or coalesced monofil)

HISISA ARGENTINA S A I C I F

Acrylic	Baradero *Cashmilon* (staple)

MANUFACTURAS DE FIBRAS SYNTETICAS (formerly Petroquimica Sudamericana)

Nylon 6	Olmos Lapi (yarn)
Polyester	Olmos Lapi (yarn & staple)

MITEXTIL S A

Nylon 6	Buenos Aires (yarn)

M NAHMIAS S A C I

Polyester	Buenos Aires (yarn)

NICIEZA y TAVERNA HNOS S A

Nylon 6	Chivilcoy *Grilon* (monofil)

RHODIA ARGENTINA QUIMICA e TEXTIL

Acetate	Quilmes (yarn)
Polyester	Quilmes *Tergal* (yarn)

SOCIEDAD NUEVAS INDUSTRIAS ARGENTINAS FIBRAS ARTIFICIALES S A I C F I (SNIAFA)

Nylon 6	Hernández La Plata *Snialon* (yarn)

SUDAMTEX S A TEXTIL SUDAMERICANA

Polyester	Azul *Acrocel* (staple)

VALENCIANA ARGENTINA S A

Nylon 6	Buenos Aires (yarn)

OLEFIN FIBER

AGAPOL S.A. (P yarn)

MANUFACTURA FORTI ARGENTINA S.A.C.I.A.F.I. Buenos Aires (P yarn & staple)

PANAMERICA DE PLASTICOS S.A.I.C. Olivos (P staple)

PETROQUIMICA Cuyo, Mondoza (P yarn)

TEXTILYUTE S.A.I.C. Isidro Casanova (P film)

VINISA S.A.I.C. Buenos Aires *Rafistal, Strofil* (E & P monofil)

ARGENTINA (continued)

GLASS FIBER

VIDRIERIA ARGENTINA S.A. (VASA) Llavallol *Texover*

AUSTRALIA

FIBREMAKERS LTD

Biconstituent	Mulgrave, Victoria *Front Runner* (melded fabric)
Nylon 66	Bayswater, Victoria *Bri Nylon* (yarn & monofil) Penrith, N S W (tire cord)
Polyester	Bayswater *Terylene* (yarn staple & tow)

UNITED CARPET MILLS PTY. LTD.

Nylon 6	Thomastown, Victoria *Unilon* (yarn)
Polyester	Thomastown (yarn)

In addition to the above, VILENE AUSTRALIA reportedly produces spunbonded products at Minto, N S W , these are believed to be principally based on cellulosic fiber, but some polypropylene may be used

OLEFIN FIBER

SARLON INDUSTRIES PTY. LTD. Punchbowl, N S W (E & P monofil & film)

OLEFIN FILM FIBER, only

A. ABRAHAMS & SONS PTY. LTD. Clayton, Victoria (*Koala, Polytex*)

AMOCO FABRICS & FIBERS COMPANY, PATCHOGUE PLYMOUTH DIVISION Liverpool, N S W *Poly Bac, Propex*

CORDEX INDUSTRIES PTY. LTD. Gladesville, N S W

GEO. KINNEAR & SONS PTY. LTD. Footscray, Victoria (*Emu*)

H. J. PENNO Adelaide, South Australia

TAPEX PTY. LTD. Sydney, N S W

GLASS FIBER

ACI FIBREGLASS, A Unit of ACI Australia, Ltd. Dandenong, Victoria

AUSTRIA

AUSTRIA FASERWERKE G.m.b.H.

Polyester	Lenzing *Trevira* (staple)

AUSTRIA (continued)

GLANZSTOFF AUSTRIA A.G. (formerly Enka-Austria)

Rayon	St Polten (ind & reg yarn)

LENZING A.G. •

Rayon	Lenzing *Lenzing Viscose* (staple) Lenzing *Modal* (staple)
Fluoro	Lenzing *Lenzing PTFE* (yarn & staple)
Polyimid	Lenzing* *P84* (yarn & staple)

OLEFIN FIBER

CHEMIE LINZ A.G. Linz *Asota, Linz PP Multifil, Linz PP Viles* (P yarn, staple & spunbonded)

LENZING A.G. Lenzing (P yarn)

M. TEUFELBERGER Wels

OLEFIN FILM FIBER, only

SEUTTER Unter Eggendorf

BANGLADESH

ASHUGANJ PETROCHEMICAL COMPLEX

Acrylic	Ashuganj (staple)

BANGLADESH CHEMICAL INDUSTRIES

Rayon	(staple)

KARNAPHULI RAYON AND CHEMICALS LIMITED

Rayon	Chandraghona, Chittagong (reg yarn & staple)

PYLON INDUSTRIES LIMITED

Nylon 6	Fouzdarhat Industrial Estate, Chittagong *Pylon* (yarn)

BELGIUM

BAYER ANTWERPEN N.V.

Nylon 6	Antwerpen *Dorix* (staple)

BEAULIEU-NYLON S.A. •

Nylon 6	Kruishoutem, East Flanders (yarn & staple)

FABELTA NINOVE N.V.

Rayon	Ninove, East Flanders (reg yarn)

FABELTA ZWIJNAARDE S.A.

Nylon 66	Zwijnaarde, East Flanders *Fabelnyl* (yarn)

HOECHST CELANESE

Acetate	Lanaken, Limburg (yarn)
Triacetate	Lanaken (yarn)

BELGIUM (continued)

OLEFIN FIBER

DELOTEX (P staple)

N.V. FIBRILO Zele, East Flanders (P staple & film)

S.A. LA LOKEROISE Lokeren, East Flanders *Alpha Carpet, Delta Carpet* (P yarn & staple)

OSTEND STORES & ROPEWORKS S.A. Ostend, West Flanders

POLYFIL N.V. (Subsidiary of Beaulieu) Wielsbeke (P yarn)

ROGER VANDEN BERGHE N.V. Desselgem (P yarn)

T.T.C. POLYOLEFINS S.A. Overpelt, Limburg (P monofil)

OLEFIN FILM FIBER, only

N.V. JONCKVANSTEEN, Passendale

S.A. PHORMIUM, Zele, East Flanders

POLYTEXCO S.P.R.L., Beveren, Kortryk

S.A. U.C.O., Ledeberg, Gent

GLASS FIBER

N.V. BAYER S.A., Antwerpen

OWENS-CORNING FIBERGLAS EUROPE S.A. Battice, Liége *Fiberglas*

Artificial (cellulosic) production and capacity data are combined with the Netherlands on pages 108 - 111. Synthetic (noncellulosic) production and capacity data are combined with the Netherlands and Luxembourg under "Benelux" on pages 104 - 107.

BOLIVIA

HILANDERIA DE ACRÍLICOS Y FIBRAS SINTETICAS "HILBO"

Acrylic	La Paz

TEJEDURIAS PLANAS DE HILADOS DE FIBRAS ARTIFICIALES Y SINTÉTICAS "ESTATEX"

	La Paz

TEJIDOS DE PUNTO "FENIX"

	La Paz

TEXTURBOL TEXTURIZADORA BOLIVIANA

Polyester	La Paz (yarn)

BRAZIL

ARTEPESCA - S.A. ARTIGOS DE PESCA DO NORDESTE •

Nylon 6	Igarassu, Pernambuco (monofil)

BRAZIL (continued)

BANYLSA TECELAGEM DO BRASIL S.A

Nylon 6	Aratú, Bahia (yarn)
Polyester	Aratú *Fio Banylsa Poliester* (yarn)

CELBRAS INDUSTRIAS QUIMICAS E TÊXTEIS S/A

Acrylic	Camaçari, Bahia *Triana* (staple)
Polyester	Pocos de Caldas, Minas Gerais *Fortrel* (staple)

CIA. NITRO QÚIMICA BRASILE!RA

Rayon	São Miguel Paulista, São Paulo (reg yarn)

COBAFI - CIA. BAHIANA DE FIBRAS

Nylon 6	Camaçari, Bahia (yarn)
Polyester	Camaçari (yarn)

DE MILLUS S.A. INDUSTRIA E COMÉRCIO

Nylon 6	Rio de Janeiro *Demilon* (yarn)

DU PONT S.A. INDÚSTRIAS QÚIMICAS

Spandex	Paulinia, São Paulo *Lycra* (fused multifil)

EQUIPESCA - EQUIPAMENTOS DE PESCA S.A

Nylon 6	Campinas, São Paulo (monofil)

FIBRA S.A

Nylon 6	Americana & Osasco, São Paulo *Lilion* (yarn)
Polyester	São Paulo (yarn)
Rayon	Americana (reg yarn & staple)

HOECHST DO BRASIL QÚIMICA E FARMACEUTICA S.A

Polyester	Osasco *Trevira* (yarn & monofil)

INDUSTRIAS MATARAZZO DE FIBRAS SINTÉTICAS S.A

Nylon 6	São José dos Campos, São Paulo (yarn)

MANAP - MANUFATURA NACIONAL DE PLÁSTICOS •

Nylon 6	Osasco, São Paulo *Caicara* (monofil)

MARCATTO S.A. IND. E COM. •

Nylon 6	Jaraguá do Sul, Santa Catarina (monofil)

MAZZAFERRO POLIMEROS E FIBRAS SINTÉTICAS LTDA

Nylon 6	São Bernardo do Campo, São Paulo *Grilon, Trilon* (yarn & monofil)
Polyester	São Bernardo do Campo, São Paulo (monofil)

MONOFIL - CIA. INDUSTRIAL DE MONOFILAMENTOS •

Nylon 6	Sao Paulo, São Paulo (monofil)

NOVELSPUMA - ESPUMA DE NYLON S.A.

Nylon 6	São Paulo, São Paulo (yarn)

POLYENKA S.A.

Polyester	Americana, São Paulo *Diolen* (yarn)

BRAZIL (continued)

POLYNOR S.A. INDUSTR!A E COMÉRCIO DE FIBRAS SINTETICAS DA PARÁIBA

Polyester	João Pessoa, Paraiba *Amilon, Polynor* (yarn & staple)

RHODIA S.A.

Acrylic	São José dos Campos, São Paulo *Crylor* (staple)
Nylon 66	Santo André *Dropnyl, Rhodianyl* (yarn & staple) São Bernardo do Campo, São Paulo *Celtral BCF* (yarn)
Polyester	Santo André *Dropgal Tergal, Tergal* (yarn & staple) São José dos Campos *Bidim* (spunbonded) São Bernardo do Campo *Fortrel* (yarn)

RHODIA NORDESTE S.A.

Polyester	Cabo, Pernambuco *Dropgal, Tergal* (staple)

SEARA IND. TÉXTIL LTDA. •

Nylon 6	Londrina, Paraná (monofil)

SPUMAR S.A. INDUSTRIA E COMERCIO •

Nylon 6	São Paulo (yarn)

OLEFIN FIBER

ARTEPESCA - S.A. ARTIGOS DE PESCA DO NORDESTE
Igarassu, Pernambuco (E & P monofil)

BRASIL VISCOSE S.A. Jundiapeba, São Paulo (P staple)

ETRÚRIA S.A. INDUSTRIA DE FIBRAS E FIOS SINTÉTICOS
Mairinque, São Paulo (P staple)

FADEMAC - FABRICA DE MATERIAIS DE CONSTR. S.A
Jacarei, São Paulo (P staple)

FITESA - FIAÇAO TÉXTIL DE EMBALAGENS PLASTICAS S.A.
Guaiba, Rio Grande do Sul (P staple) & Porto Alegre, Rio Grande do Sul (P film)

INYLBRA S.A. TAPETES E VELUDOS Diadema, São Paulo (P staple)

MANAP - MANUFATURA NACIONAL DE PLASTICOS
Osasco, São Paulo (P monofil)

MARCATTO S.A. IND. E COM. Jaragua do Sul, Santa Catarina (E & P monofil)

MONOFIL - CIA. INDUSTRIAL DE MONOFILAMENTOS
São Paulo, São Paulo (P monofil)

SEARA IND. TÉXTIL LTDA. Londrina, Paraná (E & P monofil)

SPUMAR S.A. INDUSTRIA E COMERCIO São Paulo, *Fibrilene, Polylene, Polyplan, Prolene* (P yarn, staple & film)

BRAZIL (continued)

TAPETELENE - INDÚSTRIA S.A. Pajucara/Maramguape, Ceará (P staple)

TINTORIA S.A. - BENEFICIAMENTO DE FIO (P yarn)

OLEFIN FILM FIBER, only

BRASMEN TOL CACAPAVA S.A., Cacapava, São Paulo

CACIQUE DE EMBALAGENS S.A. INDUSTRIA E COMERCIO, Londrina, Paraná

C.A.T.A. - CIA. AMAZONIA TEXTIL DE ANIAGEM S.A., Belém, Pará

CIA. FAB. YOLANDA S.A., Récife, Pernambuco

CIA. JAUENSE INDUSTRIAL, Jau, São Paulo

CIA. UNIAO MANUFATORA DE TECIDOS, Rio de Janeiro

DICOPLAST S.A. INDÚSTRIA E COMERCIO DE PLASTICOS, Presidente Prudente, São Paulo

EMPLA - EMBALAGENS PLÁSTICAS S.A., Rio de Janeiro

FIBRASA IND. E COM. DE FIOS E EMBALAGENS S.A., Espirito Santo

FIBROTEX TECELAGEM DE FIBRAS S.A., São Paulo

IMPLASA - INDÚSTRIA DE PLÁSTICOS ZANIOLO S.A., São José dos Pinhais, Paraná

INDUSTRIA TÉXTIL TSUZUKI LTDA., Suzano, São Paulo

IPLAC DO BRASIL S.A. PLÁSTICOS, Fortaleza, Ceará*

NOVOPLAST IND. E COM. DE PLÁSTICOS, Nova Odessa, São Paulo

PLABASA - PLÁSTICOS DA BAHIA S.A., Salvador, Bahiá

PLASMINAS - PLASTICOS MINAS LTDA., Tres Pontas, Minas Gerais

PLASTICOS DO PARANÁ LTDA., Londrina, Paraná

PLÁSTICOS LINIL S.A., Recife, Pernambuco

PLÁSTICOS INDÚSTRIA DE EMBALAGENS LTDA., Campinas, São Paulo

QUALITAS IND. E COM. LTDA., São Paulo

SACOPLAST/PLANOSA - PLÁSTICOS DO NORDESTE S.A., Natal, Rio Grande do Norte

GLASS FIBER

OCFIBRAS Rio Claro, São Paulo *Fiberglas*

BULGARIA

KOMBINAT "DIMITAR DIMOV" •

Acrylic	Burgas *Buiana* (staple)
Nylon 6	Vidin *Vidlon* (yarn)
Polyester	Yambol *Yambolen* (yarn, staple & tow)

KOMBINAT "SVILOSA"

Rayon	Svishtov (reg yarn & staple)

OLEFIN FIBER

KOMABINAT "DIMITAR DIMOV" Yambol (P staple)

CANADA

BASF FIBRES INC.

Nylon 6	Arnprior, Ontario *Zefran* (yarn & staple)

CELANESE CANADA INC.

Acetate	Drummondville, Quebec (yarn)
Polyester	Millhaven, Ontario *Fortel* (yarn, staple, tow & fiberfill)

COURTAULDS (CANADA) LIMITED

Rayon	Cornwall, Ontario (staple)

DU PONT CANADA INC. •

Nylon 66	Kingston, Ontario *Antron, Cantrece, Du Pont* (yarn, staple & tow)
Spandex	Maitland *Lycra* (fused multifil)

FIRESTONE TEXTILES CO.-A DIVISION OF FIRESTONE CANADA LTD.-LTEE

Nylon 6	Woodstock, Ontario (yarn & monofil)

OLEFIN FIBER

AMOCO FABRICS & FIBERS CO. Brantford & Hawkesbury, Ontario, St. Jean, Quebec *Protel* (P yarn, staple, E & P monofil & P film)

CALKO MILLS LTD. Rivière du Loup, Quebec (P monofil)

CANADA WESTERN CORDAGE CO., LTD. New Westminster, B.C. (P monofil)

DOON TWINES LTD. Kitchener, Ontario (P yarn, monofil & staple)

DU PONT CANADA INC. North Bay, Ontario (P film)

GUELPH TWINES LTD. Guelph, Ontario (P monofil & film)

NOVASTRAND St. John, New Brunswick (P monofil)

POLI-TWINE CORP. LTD. Belleville, Ontario & Saskatoon, Saskatchewan *Polytie, PolyTwine, Spiralok* (P monofil)

SCHLEGEL COMPANY CANADA Oakville (P monofil)

CANADA (continued)

STRUDEX FIBRES LTD., DIVISION OF KRAUS CARPET MILLS LTD. Waterloo (P yarn & staple - captive)

OLEFIN FILM FIBER, only

FIBERWORLD, LTD. Hawkesbury, Ontario

POLYMER INTERNATIONAL (N.S.) LTD. Truro, N.S.

GLASS FIBER

FIBERGLAS CANADA LIMITED Guelph, Ontario *Fiberglas*

CHILE

GOODYEAR DE CHILE, S.A.I.C.

Nylon 6	Maipú, Santiago (yarn & monofil)

INDUSTRIAS QUIMICAS GENERALES S.A.

Rayon	Quillota, Valparaiso (ind yarn & staple)

LANERA AUSTRAL S.A.

Polyester	Santiago (yarn, staple & tops)

MANUFACTURAS SUMAR S.A.

Nylon 6	El Pinar 172, Santiago *Crilobal* (yarn)
Polyester	El Pinar 172 *Poligal* (yarn & staple)

QUIMICA INDUSTRIAL S.A.

Polyester	Maipú, Santiago *Polycron* (staple & tops)

CHINA, PEOPLE'S REPUBLIC OF

Although reliable information on locations of manufactured fiber plants in the People's Republic of China is not available, every effort has been made to make the following listing as complete as possible.

RAYON and/or ACETATE PLANTS reported at
Amoy, Antung, Canton, Foshan, Kirin, Nanchang, Nanking, Paoting and Shanghai
NYLON PLANTS reported at
Beijing, Changsha*, Hsinhsiang, Paoting Province, Jiangsu*, Jinzhou, Liaoyang, Pingdings; Shanghai; Shanyi, Sian, Sichuan, Sining, Tianjin, Yeuyang, Hunan Province* and Zhenjiang
POLYESTER PLANTS reported at
Beijing, Changzhou, Jiangsu Province; Fangshen, Beijing Province, Guangdong Province, Guangzhou, Canton Province, Hangchow, Heilongjiang, Henan*, Jinshan, Shanghai Province, Liaoyang, Nantong; Nanjing, Jiangsu Province; Shanghai; Sichuan, Taiyuan; Tianjin; Tientsin; Xiamen, Funjion Province; Xinhu; Yizheng and Zhenjiang.
ACRYLIC PLANTS reported at
Anquing, Anhui Province; Chenchiang, Harbin Province, Daquing, Fushun; Lanzhou; Luda; Maoming, Qinhuangdao, Shanghai and Zibo.
SYNTHETIC (NONCELLULOSIC) PLANTS reported at
Beijing (vinal), Canton (vinyon), Chunking (vinyon), Foochow (vinyon); Lanzhou (olefin & vinal); Shanghai (vinyon); Shengli (vinyon) and Tientsin (vinyon).

The following three plants have been reported as producing glass fiber: Shanghai Glass Fiber Plant, Shanghai Tungfanghung Glass Fiber Plant and Tientsin Glass Fiber Plant.

COLOMBIA

COLTEFIBRAS S.A.

Polyester	Igatui, Antioquia* (yarn & staple)

ENKA DE COLOMBIA S.A.

Nylon 6	Girardota, Antioquia *Enkalon* (yarn)
Polyester	Girardota *Terlenka* (yarn & staple)

FABRICA DE HILAZAS VANYLON S.A.

Nylon 6	Barranquilla, Atlántico *Vanylon* (yarn & monofil)

POLIMEROS COLOMBIANOS S.A.

Polyester	Medellin, Antioquia *Primel* (yarn, staple, tow & tops)

ZYLETTE (LAFAYETTE)

Polyester	Bogotá (yarn)

OLEFIN FILM FIBER, only

COMPANIA NACIONAL DE EMPAQUES S.A. Medellin

PETROQUIMICA Colombiana, Cartagena.*

PLASTICOS DE MAGDELENA LTDA. Santa Marta

POLYMER DE COLOMBIA S.A. Cartagena

COSTA RICA

OLYMPIC FIBERS, S.A.

Polyester	San Antonio de Belén (yarn)

CUBA

INDUSTRIAS CONSOLIDADAS DE MATANZAS, S.A.

Rayon	Matanzas (ind & reg yarn & staple)

CYPRUS

OLEFIN FIBER

LORDOS POLYSAC (LIMASSOL) LIMITED Limassol (P film)

CZECHOSLOVAKIA

CHEMICKÉ ZAVODY JURAJA DIMITROVA, N.P.*
(GEORGE DIMITROV CHEMICAL WORKS, NATIONAL CORP.)

Rayon	Bratislava, Slovakia (reg yarn)

CHEMLON, N.P. (CHEMLON, NATIONAL CORPORATION)

Nylon 6	Humenné, Slovakia *Chemlon* (yarn)

CHEMOPETROL

Rayon	Neratovice (yarn)

CZECHOSLOVAKIA (continued)

CHEMOSVIT, N.P. (CHEMOSVIT, NATIONAL CORPORATION) •

Nylon 6	Svit, Slovakia *Svitontex* (yarn & staple)
Rayon	Svit (reg yarn)

SEVEROCESKE CHEMICKE ZÁVODY, N.P. (NORTH BOHEMIAN CHEMICAL WORKS, NATIONAL CORP.)

Rayon	Lovosice, Bohemia (ind yarn)

SILON, N.P. (SILON, NATIONAL CORPORATION)

Nylon 6	Planá nad Luznici, Bohemia *Silon* (yarn & monofil)
Polyester	Planá nad Luznici *Tesil, Tevyro, Velana* (staple, tow & fiberfill)

SLOVENSKY HODVÁB, N.P. (SLOVAKIAN FILAMENT YARN, NATIONAL CORPORATION)

Polyester	Senica nad Myjavou, Slovakia *Slotera* (yarn)
Rayon	Senica nad Myjavou (reg yarn)

SPOLANA, N.P. (SPOLANA, NATIONAL CORPORATION)

Rayon	Neratovice, Bohemia (staple)

OLEFIN FIBER

CHEMICKE ZAVODY JURAJA DIMITROVA, N.P. Bratislava *Istrona, Labren, Nobelex* (P yarn & staple)

CHEMOSVIT, N.P. Svit *Prolen, Texizol* (P yarn & spunbonded)

JUTA, N.P. Úpice, Bohemia (P spunbonded)

OLEFIN FILM FIBER, only

JUTA, N.P. Adamov, Moravia and Bernartice u Trutnova, Dvur Královó, Jilemnice & Úpice, Bohemia

POVAZSKE CHEMICKÉ ZAVODY, N.P. Zilina, Slovakia

TECHNOLEN, N.P. Lomnice nad Popelkou, Bohemia

GLASS FIBER

SKLOPLAST, N.P. (SKLOPLAST, NATIONAL CORPORATION) Trnava, Slovakia (yarn, chopped strand & mat)

VERTEX, N.P. (VERTEX, NATIONAL CORPORATION) Litomysl, Bohemia (yarn, roving, mat & staple yarn)

DENMARK

OLEFIN FIBER

A/S FIBERTEX Aalborg (P staple)

DANAKLON A/S Varde (E & P staple & film), *Krenit* (P reinforcing fiber) *Soft* 71 (P fiber non-woven)

DENMARK (continued)

ESBJERG THERMOPLAST, (A division of Vita Polymer Denmark A/S) Esbjerg (E & P monofil)

OLEFIN FILM FIBER, only

R.F.W. PLAST-INDUSTRI A/S Vejle (P film)

ROBLON A/S Frederikshavn (P film)

ECUADOR

ECUATORIANA DE TEJIDOS DE PUNTA

Polyester	Punta (yarn)

ENKADOR S.A.

Polyester	Sangolqui, Pichincha (yarn)

FIBRATEX S.A.

Polyester	Guayaquil, Guayas (yarn)

EGYPT

ESTABLISSEMENTS INDUSTRIELS POUR LA SOIE ET LE COTON S.A.A. (E.S.C.O.)

Rayon	Cairo (reg yarn)

MISR AL-AMIRIYA INDUSTRIAL FIBRE CO.

Polyester	Amiriya (yarn* & staple)

SOCIETE MISR POUR LA RAYONNE S.A.A. (MISR RAYON CO.)

Nylon 6	Kafr-el-Dawar *Misrnylon* (yarn), *Misrnylon* (staple)
Polyester	Kafr-el-Dawar *Polymisr* (yarn)
Rayon	Kafr-el-Dawar (reg yarn & staple)

EL SALVADOR

OLEFIN FIBER

FILAMENTOS Y PERFILES, S.A. (FILPERSA) San Salvador *Duraplen* (E & P monofil)

SALVAPLASTIC, S.A. San Salvador (P monofil)

FINLAND

FINEFIBRE OY

Nylon 66	Tornio (yarn)

KEMIRA OY SATERI

Rayon	Valkeakoski (staple)

FINLAND (continued)

OLEFIN FILM FIBER, only

MANILLA OY Turku

PIIPPO OY Lempaala

GLASS FIBER

A. AHLSTROM OY GLASSFIBRE Karhula *Kuitulasi* (roving & mat)

FRANCE

CELLATEX (a subsidiary of Rhône-Poulenc-Textile)

Rayon	Givet, Ardennes, Isère (reg yarn)

COURTAULDS S.A.

Acrylic	Pont du Leu, Coquelles, Pas-de-Calais *Courtelle* (staple)

NYSAM S.A.

Nylon 6	St Quentin, Aisne *Lilion* (yarn)

RHONE-POULENC-FIBRES (a subsidiary of Rhône-Poulenc-Textile)

Nylon 66	Albi, Tarn, St Laurent-Blangy, Pas-de-Calais, St Quentin, Aisne & Valance, Drôme *Nylfrance* (yarn & staple)
Polyester	Gauchy, Aisne & Valence *Bidim* (spunbonded) *Tergal* (yarn & staple)

RHOVYL (a subsidiary of Rhône-Poulenc-Textile)

Vinyon	Tronville-en-Barrois, Meuse *Clévyl, Rhovyl, Thermovyl* (yarn & staple)

SOCIETE CHOMARAT

Nylon 6	Mariac (yarn - captive)

OLEFIN FIBER

PLASTIQUE DE ROUBAIX Roubaix (P film & staple)

SODOCA FABRICATION DE NONTISSES SYNTHETIQUES S.A.R.L. Neuf Brisach, Haut-Rhin (P spunbonded)

OLEFIN FILM FIBER, only

ETS. AMMANN & CIE. Saint-Louis

ETS. BATAILLE Rosendael

BIHR FRERES S.A. Xertigny

BOUSSAC SAINT FRERES S.A. Flixecourt

SEINE & LYS Paris

FRANCE (continued)

GLASS FIBER

OWENS-CORNING FIBERGLAS FRANCE S.A. L'Ardoise, Gard *Fiberglas*

VETROTEX SAINT-GOBAIN Chambéry, Savoie-Fils et Fibres de Renforcement *Vetrotex*

GERMAN DEMOCRATIC REPUBLIC

DEUTSCHE DEMOKRATISCHE REPUBLIK (EASTERN)

(Those facilities indicated by # are part of the trust VEB Chemiefaser-kombinat Schwarza "Wilhelm Pieck".)

CHEMIEFASERWERK "FRIEDRICH ENGELS" #

Acrylic	Premnitz, Krs Rathenow *Wolpryla* (staple)
Nylon 6	Premnitz *Dederon* (staple)
Polyester	Premnitz *Grisuten* (staple)
Rayon	Premnitz (reg yarn)

CHEMIEFASERWERK "WILHELM-PIECK-STADT" GUBEN #

Nylon 6	Guben *Dederon* (yarn & monofil)
Polyester	Guben *Grisuten* (yarn)

KUNSTSEIDENWERK "CLARA ZETKIN, ELSTERBERG" #

Rayon	Elsterberg, Krs Greiz (reg yarn)

SACHSISCHES KUNSTSEIDENWERK "SIEGFRIED RADEL" #

Polyester	Pirna* (yarn)
Rayon	Pirna (ind, reg & cupra yarn)

SACHSISCHE ZELLWOLLE #

Rayon	Plauen (staple)

SPINNSTOFFWERK "OTTO BUCHWITZ" #

Rayon	Glauchau (staple)

VEB CHEMIEFASERKOMBINAT SCHWARZA "WILHELM PIECK"

Nylon 6	Schwarza, Krs Rudolstadt *Dederon* (yarn)
Rayon	Schwarza (staple)

VEB FILMFABRIK FOTOCHEMISCHES KOMBINAT

Acrylic	Wolfen, Krs Bitterfeld *Wolpryla* (staple)
Rayon	Wolfen (ind yarn & staple)
Vinyon	Wolfen *Piviacid* (staple)

ZELLSTOFF-UND ZELLWOLLWERKE WITTENBERGE #

Rayon	Wittenberge (staple)

GLASS FIBER

VEB GLASSEIDENWERK *Oschatz Glasseidengewebe, Glasseiden-Roving, Glasseiden-Stapelbindermatten, Glasseiden-Twist, Glasseiden-Zwirn, Roving-Gewebe*

GERMANY, FEDERAL REPUBLIC OF
BUNDESREPUBLIK DEUTSCHLAND (WESTERN)

AKZO FIBERS AND POLYMERS DIVISION, ENKA A.G.

Nylon 6/66	Obernburg *Enka Nylon* (yarn), *Enka Perlon* (yarn)
Polyester	Oberbruch & Obernburg *Diolen* (yarn)
Rayon	Kelsterbach, Oberbruch & Obernburg (ind & reg yarn)

BAYER A.G.

Acrylic	Dormagen *Bayer-Textilfaser Dralon* (yarn & staple)
Nylon 6	Dormagen *Perlon-Draht* (monofil)
Spandex	Dormagen *Bayer-Textilfaser Dorlastan* (fused mulltifil)

BOLTA WERKE G.m.b.H.

Saran	Nurnberg *Bolta* (monofil)

DEUTSCHE ICI G.m.b.H.

Nylon 66	Östringen *Timbrelle* (yarn & staple)
Polyester	Östringen *Terylene* (yarn)

DU PONT DE NEMOURS (DEUTSCHLAND) G.m.b.H.

Nylon 66	Uentrop, Kreis Unna (yarn & staple)
Polyester	Uentrop *Dacron* (staple, tow & fiberfill)

E. HAHL KG •

Nylon 6	Munderkingen (staple)

FASERWERKE LINGEN G.m.b.H.

Acrylic	Lingen *Bayer-Texilfasern Dralon* (staple)

HOECHST A.G.

Acrylic	Kelheim/Donau *Dolan* (staple)
Polyester	Bad Hersfeld, Hessen & Bobingen/Augsburg-land *Trevira* (yarn, staple & spunbonded), *Trevira-Draht* (monofil)
Rayon	Kelheim/Donau (staple)

KUNERT

Nylon 66	Deggendorf (yarn)
Polyester	Deggendorf (yarn)

LUTRAVIL SPINNVLIES •

Nylon 6	Kaiserslautern *Lutrabond* (spunbonded)
Polyester	Kaiserslautern *Lutradur* (spunbonded)

NORDDEUTSCHE FASERWERKE G.m.b.H.

Nylon 6/66	Neumunster *SIKS NYLON* (yarn), *SIKS PERLON* (yarn & staple)
Polyester	Neumunster *Avitron* (yarn)

PHOENIX GUMMIWERK A.G.

Saran	Hamburg/Harburg *Harlan* (monofil)

HEINRICH REINHOLD KG •

Nylon 6	Selbitz, Bayern (staple)

GERMANY, FEDERAL REPUBLIC OF (continued)
BUNDESREPUBLIK DEUTSCHLAND (WESTERN)

RHODIA A.G.

Acetate	Freiburg/Br *RHODIA FILTER TOW* (tow)
Nylon 6 6	Freiburg/Br & Rottweil a. N/Württ *RHODIA MERYL, RHODIA NYLON 6.6, RHODIA SPORT* (yarn & staple)
Polyester	Freiburg/Br *RHODIA COMFORTO, RHODIA PONTELLA, RHODIA SETILA, RHODIA TERGAL* (yarn)

SPINNSTOFFABRIK ZEHLENDORF A.G.

Polyester	Berlin-Zehlendorf *Trevira* (yarn & staple)

WACKER-CHEMIE G.m.b.H.

Vinal	Munchen-Burghausen *Wacker MP-Faser* (staple)

OLEFIN FIBER

J. F. ADOLFF A.G. Backnang (P film)

AMOCO FABRICS & FIBERS CO., DIVISION OF AMOCO (DEUTSCHLAND) G.m.b.H. Gronau (P film & staple)

J. H. BENECKE G.m.b.H. Peine *Corovin* (P spunbonded)

R. B. J. RUDOLF BILLERMANN KG Emsdetten (P yarn & staple)

CHEMISCHE WERKE HÜLS A.G. Marl, Kreis Recklinghausen, Westphalia *Vestolan* (E & P monofil)

DYNAMIT NOBEL A.G. Troisdorf, Bez. Koln *Trofil* (E & P monofil & tow)

DEUFIL Bergkamen (P yarn)

FASERWERKE BOTTROP G.m.b.H. Bottrop (P staple)

FÜSSENER TEXTIL A.G. Fussen (P film)

GEO. GLEISTEIN & SOHN Bremen-Vegesack (P film & monofil)

E. HAHL KG Munderkingen (P monofil)

RUDOLF HILLER KG (P monofil)

LUTRAVIL SPINNVLIES Kaiserslautern *Lutrasil* (P spunbonded)

HEINRICH REINHOLD KG Selbitz/Bayern (P staple)

STEEN Hamburg (P staple)

WESTFALIA SPINNEREI U. KUNSTOFFWERK SCHEM KG Minden (P monofil & film)

OLEFIN FILM FIBER, only

BAUMHÜTER G.m.b.H. Wiedenbruck

GERMANY, FEDERAL REPUBLIC OF (continued)

BUNDESREPUBLIK DEUTSCHLAND (WESTERN)

BREMER WOLL-KAMMEREI Bremen-Blumenthal

ERNST JAEGER Dusseldorf-Reisholz

HEINZ G. JUNEMANN (NORDHESSISCHE HAARWARENFABRIK) Felsberg

KUSGA KUNSTOFFGARNE G.m.b.H. Mainz

POLYDRESS PLASTIC G.m.b.H. Michelstadt

POLYUNION KUNSTOFFWERK Mesum

SCHILGEN Emsdetten

SPOHN G.m.b.H Freiburg

B. T. F. TECKLENBORG & CO. Bremen-Grohn

DR. KARL WETEKAM & CO. Melsungen

GLASS FIBER

GEVETEX-TEXTILGLAS G.m.b.H. Aachen & Herzogenrath
Fiberglas Vetrotex

SCHULLER GLASWERK Westheim

GREECE

ETMA S.A.

Nylon 6/66	Athens (yarn)
Rayon	Athens (reg yarn)

HELLENIC SYNTHETICS INDUSTRY

Polyester	Kalogreza (yarn)

POLYETMA LTD.

Polyester	Athens (yarn)

"VOMVIX" S.A.

Nylon 6/66	Athens (yarn)
Polyester	Athens (yarn)

OLEFIN FIBER

VIOFARM Argos (P staple)

OLEFIN FILM FIBER, only

ARIPLAST S.A. Athens

BIOSISAL Athens

DESSILA Piraeus

GREECE (continued)

ELVISAK Athens

MARINE ROPE Athens

OLYMPIC ROPES Piraeus

SISAL ROPERY Salonika

C. VELLIS HEIRS S.A. Piraeus

VESY S.A. SYNTHETIC MATERIALS INDUSTRY Piraeus

GUATEMALA

HILOS SINTETICOS CENTROAMERICANOS, S.A.

Nylon 6	San José Pinula, Guatemala (yarn) (idle)

OLEFIN FIBER

CORDELERIA LA RAPIDA Guatemala, Guatemala (P monofil)

HONDURAS

OLEFIN FIBER

POLYMER (subsidiary of United Brands) San Pedro Sula (P film)

HUNGARY

DANUFIL

Rayon	Nyergesújfalu (staple*)

MAGYAR VISCOSAGYÁR (Hungarian Viscose Factory) •

Acrylic	Nyergesújfalu *Crumeron* (staple)
Nylon 6	Nyergesujfalu *Danamid* (yarn & staple)
Rayon	Nyergesújfalu *Crumeron* (staple)

OLEFIN FIBER

GRABOPLAST Gyor (P staple)

KENDER JUTA TEXTILIPARI V. Budapest (P film)

KENDERFONÓ ÉS SZÖVÖIPARI V. SZEGED Szeged (P film)

MAGYAR VISCOSAGYÁR Nyergesújfalu *Popril* (P staple)

SOPRONI SZÖNYEGGYÁR Sopron *Sopilen* (P yarn)

TISZA CHEMICAL COMBINE Lenin Varas (P staple)

INDIA

ACME INVESTMENTS LTD.

Nylon 6	Panki Industrial Area, Kanpur* (yarn)

INDIA (continued)

THE AHMEDABAD MFG. & CALICO PRINTING CO. LTD. CALICO POLYESTER FIBRE DIV.

Polyester	Baroda, Gujarat *Ilacron* (staple)

ANDHRA PRADESH RAYONS LTD.

Rayon	Kamalapuram, Warangal District, Andhra Pradresh* (staple)

THE BARODA RAYON CORPORATION LIMITED

Nylon 6	Udhna, Gujarat *Snialon* (yarn)
Polyester	Udhna *Sniater* (yarn)
Rayon	Udhna (reg yarn)

BONGAIGAON REFINERY AND PETROCHEMICALS LTD.

Polyester	Goalpara, Assam* (staple)

CENTURY ENKA LIMITED

Nylon 6	Bhosari, Pune, Maharashtra* *Enkalon* (yarn)
Polyester	Bhosari (yarn)

CENTURY RAYON (Prop.: The Century Spg. & Mfg. Co. Ltd.)

Rayon	Kalyan, near Bombay, Maharashtra (ind & reg yarn)

GARWARE NYLONS LIMITED

Nylon 6	Pimpri, Pune, Maharashtra* *Garware* (yarn & monofil)
Polyester	Pimpri (yarn)

THE GWALIOR RAYON SILK MFG. (WVG) CO. LIMITED

Rayon	Birlagram, Nagda, Madhya Pradesh & Birlakootoam, Mavoor, Kerala (staple),
Polyester	Rajgarh*, Madhya Pradesh (staple)

HARYANA PETROCHEMICALS LTD.

Polyester	Rewari, Haryana* (yarn)

INDIA POLYFIBRES

Polyester	Parakandauli & Lucknow, Uttar Pradesh (staple)

INDIAN EXPLOSIVES LTD.

Polyester	Thane, near Bombay, Maharashtra *Terene* (staple)

INDIAN ORGANIC CHEMICALS LIMITED

Polyester	Manali, Madras, Tamil Nadu *Futura* (yarn & staple)

INDIAN PETROCHEMICALS CORP. LTD.

Acrylic	Vadodara, Baroda, Gujarat *Cashmilon* (staple)

THE INDIAN RAYON CORPORATION LIMITED

Rayon	Veraval, Gujarat (reg yarn)
Polyester	Broach (yarn*)

J.K. RAYON, J.K. PURI

Rayon	Kanpur, Uttar Pradesh (reg yarn)

J.K. SYNTHETICS LIMITED

Acrylic	Kota, Rajasthan *Jayacrylic* (staple)
Nylon 6	Kota *Jayanka, Jaycord, Jaykalon* (yarn, monofil & staple)
Polyester	Calcutta, Kota, Orissa* *Jakaylene* (yarn & staple)

INDIA (continued)

JAGATJIT COTTON TEXTILE MILLS LTD.

Nylon 6	Hoshiarpur, Punjab (yarn)
Polyester	Hoshiarpur (yarn)

KARNATAKA STATE INDUSTRIAL DEVELOPMENT CORPORATION LIMITED

Nylon 6	Karnataka* (yarn)
Polyester	Karnataka* (yarn & staple)

KESORAM RAYON (Prop.: Kesoram Industries and Cotton Mills Ltd.)

Rayon	Nayasarai, Hooghly, West Bengal (reg yarn)

MODIPON LIMITED

Nylon 6	Modinagar, Uttar Pradesh *Modipon* (yarn)
Polyester	Modinagar (yarn)
Rayon	(staple*)

THE NATIONAL RAYON CORPORATION LIMITED

Nylon 6	Mohone-Kalyan, near Bombay, Maharashtra* *N.R.C.* (yarn)
Rayon	Mohone-Kalyan (ind & reg yarn)

NIRLON SYNTHETIC FIBRES & CHEMICALS LIMITED

Nylon 6	Bombay, Maharashtra *Nircord, Nirlon* (yarn & monofil)
Polyester	Bombay *Nirester* (yarn)

ORISSA SYNTHETICS LTD.

Polyester	Orissa* (staple)

ORKAY SILK MILLS PVT. LTD.

Polyester	Patalganga, Maharashtra* (yarn)

PARSURAM PURIA SYNTHETICS LTD.

Polyester	Alwar, Rajasthan* (yarn)

PASUPATI ACRYLON LIMITED

Acrylic	Moradabad, Uttar Pradesh* (staple)

PETROFILS COOPERATIVE LIMITED

Polyester	Jawaharnagar, Baroda, Gujarat (yarn)

PRADESHIYA INDUSTRIAL INVESTMENT CORPORATION OF UTTAR PRADESH

Polyester	Uttar Pradesh* (yarn)

PUNJAB STATE INDUSTRIAL DEVELOPMENT CORP. LTD.

Acrylic	Punjab (staple)
Polyester	Punjab (staple)

RAYMOND SYNTHETICS

Polyester	(yarn*)

RELIANCE INDUSTRIES LTD.

Polyester	Patalganga, Maharashtra* (yarn & staple*)

SHREE SYNTHETICS LIMITED

Nylon 6	Naulakhi, Ujjain, Madhya Pradesh *Shreelon* (yarn)
Polyester	Naulakhi *Shreester* (yarn)

INDIA (continued)

SHRIRAM FIBRES LIMITED

Nylon 6	Manali, Madras, Tamil Nadu, *Tufcord* (yarn)

SHRIRAM RAYONS

Rayon	Kota, Rajasthan (ind yarn)
Nylon 6	Kota (yarn)

THE SIRSILK LIMITED

Acetate	Sirpur Kaghaznagar, Andhra Pradesh (yarn & staple)

SOUTH INDIA VISCOSE LIMITED

Rayon	Sirumughai, near Mettupalayam, Tamil Nadu (reg yarn & staple)

STRETCH FIBRES (INDIA) LIMITED

Nylon 6	Nagpur, Maharashtra, *SF* (yarn)

SWADESHI POLYTEX LIMITED

Polyester	Gaziabad, Uttar Pradesh, *Jailene* (staple)

THAPAR DU PONT LTD.

Nylon	Goa* (ind yarn)

THE TRAVANCORE RAYONS LIMITED

Rayon	Rayonpuram, Kerala (reg yarn)

TUNGABHADRA FIBRES LTD.

Rayon	Tungabhadra, Andhra Pradesh (staple)

OLEFIN FIBER

AMITABH TEXTILE MILLS LTD. Dehra Dun, Uttar Pradesh* (P yarn)

ANIL KUMAR JAIN Ankleshwar, Gujarat* (P yarn)

GUJARAT FILAMENTS CORPORATION LTD. Baroda, Gujarat* (P yarn)

GUPTA NEEDLE INDUSTRIES PVT. LTD. Dharuhera, Haryana* (P yarn)

INDO SYNTHETICS CORP. (P yarn*)

J.K. BHAGAT Bhiwand, Alwar, Rajasthan* (P yarn)

KALYANI ASBESTOS CEMENT PVT. LTD. Kalol, Gujarat* (P yarn)

NEOMER LIMITED Baroda, Panchmahal, Gujarat *Proplon* (P staple)

NIAGARA INTERNATIONAL (P yarn*)

POLYPROP INDUSTRIES Dharuhera, Haryana* (P yarn)

POLYPROPYLENE INDIA, LTD. Uttar Pradesh* (P yarn)

RAJASTHAN PETROSYNTHETICS LTD. Udaipur, Rajasthan* (P yarn)

RAJENDRA V. PATEL Cambay, Gujarat* (P yarn)

INDIA (continued)

SANJEEV SHRIYA Uttar Pradesh* (P yarn)

INDONESIA

INDONESIA PENELITIAN SELULOSA (Cellulose Research Institute)

P.F. FIBRES e CHEMICALS

Nylon	(yarn)

P.T. BERKAT INDAH AGUNG

Rayon	Tangerang, West Java* (staple)

P.T. INDO-BHARAT RAYON

Rayon	Desa Cilangkap, Purwakarta (staple)

P.T. INDO RAMA SYNTHETICS

Rayon	Jatilurhur-Purwakarta (staple)
Acrylic	Jatilurhur-Purwakarta (staple)
Polyester	Jatilurhur-Purwakarta (staple*)

P.T. INDONESIA ASAHI CHEMICAL

Nylon 6	Jatiluhur, Purwakarta, West Java (yarn)

P.T. INDONESIA TORAY SYNTHETICS

Nylon 6	Tangerang, West Java (yarn)
Polyester	Tangerang (staple)

P.T. INDUSTRI SANDANG I

Polyester	Tangerang* (staple)

P.T. INDUSTRI SANDANG II

Rayon	South Sumatra* & West Kalimantan* (staple)

P.T. INTI

Rayon	West Kalimanton (staple*)

P.T. INTI INDAH RAYON UTAMA

Rayon	Sosorladang, N. Sumatra* (yarn)

P.T. KUMA FIBER (P.T. Kuraray Manunggal Fibre Industries)

Polyester	Cikokol, Tangerang, West Java (staple)

P.T. PAN ASIA SYNTHETIC ABADI

Polyester	Bandung (yarn)

P.T. POLYSINDO EKA PERKASA

Polyester	Kaliwungu, Kendal, C. Java (yarn & staple)

P.T. SHINTA-INDAH DJAYA

Nylon 6	Tangerang, West Java (yarn)
Polyester	Tangerang *Shinta* (yarn)

P.T. SOUTH PACIFIC VISCOSE

Rayon	Purwakarta, West Java (staple)

P.T. SUSILIA INDAH SYNTHETIC FIBRES INDUSTRIES

Polyester	Djakarta*, Tangerang, West Java (yarn & staple)

P.T. TEXMACO TAMAN SYNTHETIC

INDONESIA (continued)

P.T. TIFICOR (P.T. Teijin Indonesia Fibre Corp.)
Polyester Tangerang, West Java (yarn & staple*)

P.T. TOLARAM
Polyester (yarn)

P.T. TRI REMPOA SOLO SYNTHETIC
Polyester Rempon, Tangerang, West Java (staple)

P.T. VASTEX PRIMA INDUSTRIES
Polyester Jalan Gedebage Ujungberung Bandung (yarn)

P.T. YASINTA
Polyester Tangerang, West Java (yarn & staple*)

RAUMAQ ENTERPRISES
Nylon (yarn)

IRAN

PARSYLON CORPORATION
Nylon 6 Khoram-Abad (yarn)

POLYACRYL IRAN CORPORATION
Acrylic Isfahan (staple)
Polyester Isfahan (yarn & staple)

SHERKAT SAHAMI ALIAF
Nylon 6 Tehran *Aliaf* (yarn)

OLEFIN FIBER

JAHANCITT SPINNING & WEAVING CO. Tehran (P film)

IRAQ

HINDIYA RAYON FACTORY
Rayon Hindiya (reg yarn & staple)

OLEFIN FIBER

STATE ENTERPRISE FOR PLASTIC BAGS Tikrit

IRELAND

ASAHI SYNTHETIC FIBRES (IRELAND) LTD.
Acrylic Ballina, Mayon *Cashmilon* (staple)

LIRELLE (IRELAND) LTD. (A Division of Unifi, Inc.)
Polyester Letterkenny *Lirelle* (yarn)

WELLMAN INTERNATIONAL LTD.
Nylon 6/66 Mullagh, Kells, Meath *Welion* (staple)
Polyester Mullagh *Filwell, Wellene* (staple)

OLEFIN FIBER

F. DRAKE (IRELAND) LTD. Moate, Westmeath (P staple)

J. & L.F. GOODBODY (SYNTHETICS) LTD. Clara, Offaly (P yarn & film)

IRELAND (continued)

OLEFIN FILM FIBER, only

IRISH POLYSACKS LTD. Blarney, Cork

IRISH ROPES LTD. Newbridge, Kildare

POLYTEX LTD.

ISRAEL

NILIT
Nylon 66 Migdal Ha-Emek (yarn)

ITALY

ALBATESSILE S.p.A.
Polyester Alba, Piemonte (yarn)

AQUAFIL S.p.A.
Nylon 6 Arco di Trento, Trentino *Aqualon* (yarn)
Polyester Arco di Trento (yarn)

BEMBERG S.p.A.
Nylon 6 Gozzano, Piemonte *Ortalion* (yarn)
Cupro Gozzano *Bemberg* (yarn)

CARPOL S.p.A.
Nylon 6 Forli, Emilia Romagna (yarn)

ENICHEM FIBRE S.p.A. (formerly Anicfibre)
Acrylic Ottana & Porto Torres, Sardegna *Euroacril, Sironil* (staple & tow)
Nylon 6 Pisticci, Lucania *Nivion* (yarn & staple)
Polyester Ottana *Fidion* (staple & tow)

FILANDA 1992 S.p.A.
Polyester Treviglio, Lombardia (yarn)

FILATURA DI VAL LESINA S.p.A.
Polyester Andalo Valtellino, Lombardia *Valena* (yarn)

FIMALON S.p.A.
Nylon 66 Castelnuovo Valsugana, Trentino Alto Adige (yarn)

FORTEX SIDAC S.p.A.
Nylon 6 Forli, Emilia Romagna *Forlion* (yarn)

FRATELLI FRANCHI S.p.A.
Nylon 6 Canapale, Toscana *Frankilon* (yarn)
Polyester Canapale *Frankilene* (yarn)

INDUSTRIE TESSILI VERCELLI S.p.A.
Acetate Vercelli, Piemonte (yarn)

MONTEFIBRE S.p.A.
Acrylic Porto Marghera, Veneto *Leacril* (staple & tow)
Polyester Acerra, Campania *Terital* (yarn, staple & tow)

NOVACETA S.p.A.
Acetate Magenta, Lombardia (yarn)

ITALY (continued)

NUOVA RAYON ITALIA S.p.A.

Rayon	Rieti, Lazio (reg yarn)

RADICI FIL S.p.A.

Nylon 6	Casnigo, Lombardia (yarn)

SETTE STELLE S.p.A.

Nylon 6	Castelgoffredo, Lombardia (yarn)

SNIA FIBRE S.p.A.

Acrylic	Cesano Maderno, Lombardia, Villacidro, Sardegna *Velicren, Velicren F.R.* (staple & tow)
Nylon 6/66	Castellaccio, Lazio, Cesano Maderno & Varedo, Lombardia, Villacidro, Napoli Campania *Coro Lilion Souple, Lilion Styl* (yarn, staple & tow)
Polyester	Napoli *Wistel, Wistel F.R.* (yarn)
Poliossiamide	Cesano Maderno *Vivrelle* (staple)

SOCIETA INDUSTRIALE CREMONESE S.p.A.

Rayon	Pizzighettone, Lombardia (ind yarn)

STERE

Polyester	Cardano al Campo, Lombardia (yarn)

TERBOND S.p.A.

Polyester	Pisticci, Lucania *Terbond* (spunbonded)

TEXTILE PRODUKTE S.p.A.

Nylon 6	Villa D'Ogna, Lombardia (yarn & staple)

TORCITURA DI BORGOMANERO S.p.A.

Nylon 6	Milano, Lombardia *Borgolon* (yarn)

OLEFIN FIBER

EUROFIL Gandino, Lombardia (P staple)

FILATURA DI DELEBIO S.p.A. Delebio, Lombardia *Delebion* (P yarn)

FILLI FRANA Casnigo, Lombardia (P staple & film)

I.T.S. Legnano, Lombardia (P yarn)

MOPLEFAN (Formerly Himont Italia S.p.A.) Terni, Umbria *Meraklon* (P yarn & staple)

M.R. 81 Grassobbio, Lombardia (P yarn)

NOVASAR Caronno Pertusella, Lombardia (P yarn & staple)

POLYMECON Zibido S. Giacomo, Lombardia (P staple & tow)

SERGEL Casnigo, Lombardia (P staple)

TEXTILE PRODUKTE Villa D'Ogna, Lombardia (P staple)

OLEFIN FILM FIBER, only

CARPET BACKING S.p.A. Ceniga

ITALY (continued)

DE MAGISTRIS EMILIO Bagnolo Cremasco

LICANA NORD S.p.A. Cassano d'Adda (Milano)

MILANPLAST s.r.l. Milano

MOPLEFAN S.p.A. Milano

NEOFIBRE s.r.l. Lendinara

SACHIM (MUMMOLO) Bari

S.E.A.L. S.p.A. Milano

S.I.S.A.L. S.p.A. Piacenza

STIROSIR S.p.A. Milano

TESSITURA LOMBARDA DI CONSONNI ELIA ALBIATE

GLASS FIBER

VETROTEX ITALIA S.p.A. Besana Brianza, Lombardia (mat), Fibras Di Rinforzo *VETROTEX*

VITROFIL S.p.A. Vado Ligure, Liguria

JAPAN

ASAHI CHEMICAL INDUSTRY CO., LTD.

Acrylic	Fuji *Cashmilon, Pewlon* (yarn & staple)
Nylon 6/66	Nobeoka & Moriyama *Asahi Kasei Nylon, Leona* (yarn, monofil & spunbonded)
Polyester	Nobeoka & Moriyama *Asahi Kasei Ester* (yarn & spunbonded)
Rayon	Nobeoka (reg & cupra yarn, cupra staple & cupra spunbonded)
Saran	Suzuka (yarn, monofil & staple)
Spandex	Moriyama *Roica*

DAIWABO RAYON CO., LTD.

Rayon	Masuda (staple)

FUJI SPINNING CO., LTD.

Rayon	Toyo (staple)
Spandex	Kozakai *Fujibo Spandex*

JAPAN EXLAN CO., LTD.

Acrylic	Saidaiji *Exlan* (staple)

KANEBO, LTD.

Acrylic	Hofu *Kanebo Acryl* (staple)
Nylon 6	Hofu *Kanebo Nylon* (uarn)
Polyester	Sabae *Kanebo Polyester* (yarn)
Spandex	Hofu *Kanebo Loobell*

KANEGAFUCHI CHEMICAL INDUSTRY CO., LTD.

Modacrylic	Takasago *Kanecaron, Kanekalon* (staple & tow)

JAPAN (continued)

KOHJIN CO., LTD.

Polychlal	Yatsushiro *Cordelan* (staple)
Rayon	Yatsushiro (staple)

KURARAY CO., LTD.

Polyester	Saijo & Tamashima *Kuraray Polyester* (yarn & staple)
Rayon	Saijo & Tamashima *Three Golden Horses* (reg yarn)
Vinal	Okayama *Kuralon* (yarn & staple)

KUREHA CHEMICAL INDUSTRY CO., LTD.

Saran	Mibu *Krehalon* (yarn, monofil & staple)
Vinyon	Mibu *Viclon* (monofil)

MITSUBISHI RAYON CO., LTD. •

Acetate	Toyama (yarn & tow)
Acrylic	Otake *Finel, Silpalon, Vonnel* (yarn & staple)
Polyester	Toyohashi *Soluna* (yarn), Lunaace (staple)
Triacetate	Toyama (yarn)

NIPPON ESTER CO., LTD. (subsidiary of Unitika, Kanebo and Mitsubishi Chemical Industry)

Polyester	Okazaki & Sabae *Unitika Ester, Kanebo Ester* (yarn & staple)

NISSHINBO INDUSTRIES, INC.

Rayon	Tokushima (staple)
Spandex	Tokushima *Mobilon*

NITIVY CO., LTD.

Vinal	Fujieda *Niti-Vilon, Solvron, Vilon* (yarn)

OMIKENSHI CO., LTD.

Rayon	Kakogawa (yarn & staple)

TEIJIN LTD.

Aramid	Iwakuni & Matsuyama *Technora, Teijinconex* (yarn & staple)
Nylon 6	Mihara *Teijin Nylon* (yarn)
Polyester	Iwakuni, Matsuyama & Tokuyama *Teijin-Tetoron* (yarn & staple)
Vinyon	Iwakuni *Teviron* (yarn)

TEIJIN ACETATE LTD. (subsidiary of Teijin Ltd.)

Acetate	Matsuyama *Teijin-Acetate* (yarn)

TOHO RAYON CO., LTD.

Acrylic	Mishima *Beslon* (staple & tow)
Rayon	Tokushima *Tovis* (staple)

TORAY- DU PONT COMPANY LTD.

Spandex	Shiga *Opelon* (fused multifil)

TORAY INDUSTRIES, INC.

Acrylic	Ehime *Toraylon* (staple)
Nylon 6	Aichi, Ishikawa*, Nagoya, Okazaki & Shiga *Amilan, Toray Nylon* (yarn & staple)
Nylon 6/66 copolymer	Aichi *Tapilon* (yarn)
Nylon 66	Aichi, Ishikawa & Okazaki *Promilan* (yarn)
Polyester	Ehime, Ishikawa, Mishima & Okazaki *Toray Tetoron* (yarn & staple)

JAPAN (continued)

TORAY-MONOFILAMENT CO., LTD.

Nylon 6	Okazaki *Toray Nylon* (monofil)

TOYO CHEMICAL CO., LTD.

Vinyon	Ofuna *Envilon* (yarn & monofil)

TOYOBO CO., LTD. •

Nylon 6	Tsuruga *Toyobo Nylon* (ind & reg yarn)
Polyester	Iwakuni & Tsuruga *Toyobo Ester* (ind & reg yarn, staple & spunbonded)
Promix	Tsuruga *Chinon* (yarn)
Rayon	Iwakuni *Tufcel* (staple)
Spandex	Tsuruga *Espa*

UNITIKA LTD.

Nylon 6	Uji *Unitika Nylon* (yarn, monofil & staple)
Polyester	Okazaki *Ester Marix* (ind yarn & spunbonded)

UNITIKA KASEI CO., LTD.

Vinal	Sakoshi (Akoh City) *Mewlon* (yarn, monofil & staple)

UNITIKA RAYON CO., LTD.

Rayon	Okazaki & Uji (ind & reg yarn)

YOSHIDA KOGYO K.K.

Polyester	Kurobe (yarn)

OLEFIN FIBER

ASAHI CHEMICAL INDUSTRY CO., LTD. Moriyama (P spunbonded)

CHISSO POLYPRO FIBER CO., LTD. Moriyama *Chisso Polypro, ES Fiber* (P yarn & staple)

DAIWABO CO., LTD. Harima *Daiwabo Polypro, NBF Fiber* (E & P staple)

HAGIHARA INDUSTRY CO., LTD. Kurashiki (E monofil & film)

HIRATA SPINNING CO., LTD. Yokkaichi *Hiralon* (E & P yarn & monofil)

INABA SEIKO, LTD. Gamagori (E monofil)

KANEYA SEIKO, LTD. Hokkaido & Kushiro (E & P monofil)

KUREHA CHEMICAL INDUSTRY CO., LTD. Mibu *Kureha Polypropylene* (P monofil)

MARUAI CO., LTD. Toyohashi (E monofil)

MITSUBISHI RAYON CO., LTD. Toyohashi *Mitsubishi Pylen* (P yarn & staple)

NAGANO KAKO CO., LTD. Nagano (E monofil)

SHOWA POLYMER CO., LTD. Ibaraki (E monofil & film)

SUNREX INDUSTRY CO., LTD. Yokkaichi (E monofil & P spunbonded)

JAPAN (continued)

TAI-RAY CO., LTD. Mito *Danzex, Danzex Lite, Liplon* (E monofil P yarn & monofil)

TANIYAMA CHEMICAL INDUSTRY CO., LTD. Okayama *Tanikalon* (E monofil)

TOA WOOL SPINNING & WEAVING CO., LTD. Tomari *Toabo Polypro* (P staple)

TONEN TAPYRUS K.K. (TONEN TAPYRUS CO., LTD.) Kawasaki *Tapyrus* (P spunbonded)

TOYOBO CO., LTD. Iwakuni (P staple)

UBE-NITTO KASEI CO., LTD. Fukuyama & Gifu *Bulkilon F, Danline Sun Line, Super Danline, Ube-Nitto Polypro, UNK UC Fiber* (E & P monofil & P yarn & E & P staple)

DAIDO KASEI Osaka

FUJIMOTO SANGYO Osaka

OKAMOTO CHEMICAL Ehime

SAKAI KASEI Osaka

SANTO CHEMICAL Aichi

SEKISUI CHEMICAL Amagasaki & Nara

TOYAMA Chiba

TOYO SODA Yokkaichi

WAKO SPINNING CO. Gifu

YAMAJIN TEXTILE Fukui

GLASS FIBER

ASAHI FIBER GLASS CO., LTD. Ibaraki & Shonan *Glasslon*

ASAHI-SCHWEBEL CO., LTD. Moriyama

CENTRAL GLASSFIBER CO., LTD. Matsusaka

FUJI FIBER GLASS CO. Moka

KANEBO, LTD. Gunma *Textoglass*

NIPPON GLASS FIBER CO., LTD. Tsu *Micro Glass*

THE NIPPON MINERAL FIBER MFG. CO. Tarui & Yuki *Superfine*

NITTO BOSEKI CO., LTD. Fukushima *Iceberg*

PARAMOUNT GLASS MFG. CO., LTD. Koriyama & Suzuka *Fether Glass*

UNITIKA U.M. GLASS CO., LTD. Kyoto

KENYA

AFRICA SYNTHETIC FIBER LTD.

Nylon 6	Thika (yarn)
Polyester	Thika (staple)

JAYDEES LTD.

Polyester	Nairobi (yarn)

KENYA FIBRE CORPORATION LTD.

Polyester	Nanyuki (yarn & staple)

KISUMU COTTON MILL (KICOMI)

Polyester	Kisumu

SUNFLAG LTD.

Polyester	Nairobi (yarn)

OLEFIN FIBER

UNISACK LTD. Thika (P film)

KOREA
PEOPLE'S DEMOCRATIC REPUBLIC OF (NORTH)

A number of manufactured fiber plants are said to be operating in North Korea (see June 1970 *Organon* issue, page 113), however, no data for this country are recorded in any table of this issue due to lack of reliable information.

KOREA
REPUBLIC OF (SOUTH)

CHEIL SYNTHETIC TEXTILES COMPANY

Polyester	Kumi *Eslon* (yarn & staple)

DAEHAN SYNTHETIC FIBER COMPANY

Polyester	Ulsan *Acelan* (yarn & staple)

GORYEO NYLON CORPORATION LTD.

Nylon 6	Kyungsan Kun *Kolon* (yarn)

HANIL SYNTHETIC FIBER INDUSTRIAL COMPANY

Acrylic	Masan *Hanilon* (staple)

JEIL SYNTHETIC FIBERS COMPANY•

Polyester	Seoul *Oplen* (yarn)

KOHAP, LTD. •

Nylon 6	Shihung *Palmylon* (yarn & staple)
Polyester	Shihung *Palmylon* (yarn & staple)

KOLON INDUSTRIES INC.

Nylon 6	Kumi, Taegu *Kolon* (yarn)
Polyester	Kumi *Kolon* (yarn)

SAMYANG COMPANY LTD.

Polyester	Chunju *Triron* (yarn & staple)

KOREA
REPUBLIC OF (SOUTH) (continued)

SUNKYONG FIBRES LTD.

Acetate	Suwon *Sunkyung* (yarn & tow)
Polyester	Suwon & Ulsan *Sunkyong* (yarn & staple)

TAEKWANG INDUSTRIAL COMPANY

Acrylic	Ulsan *Acelan* (staple)
Spandex	Ulsan *Acelan* (yarn)

TONGKOOK FIBRES LTD.

Polyester	Kumi* (yarn)

TONGYANG NYLON COMPANY

Nylon 6	Anyang & Ulsan *Toplon* (yarn)
Polyester	Ulsan *Toplon* (yarn)

TONGYANG POLYESTER COMPANY

Polyester	Ulsan *Toplon* (yarn)

WONJIN RAYON COMPANY, LTD.

Rayon	Donong *Coray* (reg yarn & staple)

OLEFIN FIBER

JEIL SYNTHETIC FIBERS COMPANY Seoul *Oplene* (P yarn & staple)

KOHAP, LTD. Shihung *Happylon, Pylon* (P staple)

KUMSUNG SYNTHETIC FIBER CO., LTD. Seoul *Hopelon, Polon* (P staple) (idle)

LIBYA

LIBYA NATIONAL OIL CORPORATION (LINOCO)

Nylon 6	Marsa Al-Brega* (yarn)
Polyester	Marsa Al-Brega* (staple)

LUXEMBOURG

TECHNOFIBRES

Polyester	Mertert (yarn)

Production and capacity data are combined with Belgium and the Netherlands under "Benelux" on pages 104 - 105.

OLEFIN FIBER

DU PONT FIBRES S.A. Contern-Hesperange *Typar* (P spunbonded)

MALAYSIA

ALIFFIL SYNTHETIC FIBRE SDN. BHD.

Polyester	Penang (yarn)

MALAYSIA (continued)

ALLIED MALAYAN TEXTILE BHD.

Rayon	Penang *Teteron* (yarn)

ARAB-MALAYSIAN DEVELOPMENT BHD.

Rayon	Perak *Teteron* (yarn)

CHEMPAKA NEGRI LAKSHMI TEXTILES SDN. BHD.

Polyester	Negeri *Sembilan* (yarn)
Rayon	Negeri *Teteron* (yarn)

HING YIAP FIBREMAKERS

Polyester	Johor (yarn)

KWALITY TEXTILES (M) SDN. BHD.

Polyester	Kedah *Teteron* (yarn)
Rayon	Kedah *Teteron* (yarn)

MWE SPINNING MILLS SDN. BHD.

Polyester	Penang *Teteron* (yarn)
Rayon	Penang *Teteron* (yarn)

PENFIBRE SDN. BHD.

Nylon	Penang (staple*)
Polyester	Penang (staple)

QUALINIT SDN. BHD.

Polyester	Penang (yarn)

SOUTEX SENDIRIAN BERHAD

Polyester	Batu Pahat (yarn & staple)

SOUTH ASIA FIBRE INDUSTRIES SDN. BHD.

Polyester	Perak (yarn)

TEXFIBRE (SELANGOR) SDN. BHD.

Polyester	Kuala Lumpur (yarn)

TOOTAL THREAD MALACCA SDN. BHD.

Polyester	Malacca (yarn)

VERTEX FIBRE SDN. BHD.

Nylon	Perak (yarn)

MALTA

NYLON KNITTING CO. LTD.

Nylon 6	Qormi (yarn)

Production and capacity data are combined with Italy

MEXICO

CELANESE MEXICANA, S.A.

Acetate	Ocotlán, Jalisco (yarn & staple)
Acrylic	Zacapu, Michoacán (staple, tow & tops)
Nylon 6	Ocotlán & Toluca, México *Duracel, Nycel* (yarn & staple)
Polyester	Ocotlán, Querétaro & Toluca *Crolan* (yarn & staple)

MEXICO (continued)

CELULOSA Y DERIVADOS, S.A.

Acrylic	Atequiza, Jalisco *Crysel* (staple, tow & tops)
Rayon	Monterrey, Nuevo León (ind & reg yarn)

FIBRAS QUIMICAS, S.A.

Nylon 6	Monterrey, Nuevo León *Supernylon Cydsa* (yarn & monofil)
Polyester	Monterrey *Terlenka* (yarn)

FIBRAS SINTETICAS, S.A.

Acrylic	Cotaxtla, Veracruz *Fisisa* (staple, tow & tops)
Nylon 6	Mexico, D.F. *Fisisa* (yarn & monofil)
Polyester	Cotaxtla & México City *Fisisa* (yarn & staple)

FIBRASOMNI, S.A.•

Nylon 6	Ixtapalapa, D.F. *Omni Nylon* (monofil)
Saran	Ixtapalapa *Omni Saran* (monofil)

INDUSTRIAS PETROQUIMICAS MEXICANAS, S.A.

Polyester	El Salto, Jalisco *Inpetmex* (yarn)

KIMEX S.A.

Nylon 6	Tlalnepantla, México *Aztecron* (yarn)
Polyester	Tlalnepantla *Kintrel* (yarn)

NYLON DE MEXICO, S.A.

Nylon 6	La Leona, Nuevo León *Nylfil* (yarn & staple)
Polyester	La Leona *Delcron* (yarn, staple, tow & fiberfill)
Spandex	La Leona *Likra* (fused multifil)

PLASTICA MODERNA, S.A. DE C.V.

Nylon 6	Tlalpan, D.F. *Perlux* (monofil)

PRODUCTOS PLASTICOS DE PUEBLA, S.A.

Nylon 6	Puebla, Puebla *Prolon* (monofil)

OLEFIN FIBER

FIBRASOMNI, S.A. Ixtapalapa, D.F. *Politen Omni* (E monofil), *Polyprop Omni* (P yarn & monofil)

INDUSTRIAS POLIFIL, S.A. Ixtacuixtla, Tlaxcala *Pliana* (P yarn & staple)

PLASTICOS INDUSTRIALIZADOS, S.A. Monterrey, Nuevo León (P staple)

OLEFIN FILM FIBER, only

HILOS Y CORDELES, S.A. Tlalnepantla, México

PLASTICEL, S.A. Monterrey, Nuevo León (*Plasticel*)

POLISAC, S.A. (affiliate of Nylon de México, S.A.), Guadalajara, Jalisco (*Polisac*)

GLASS FIBER

VITRO-FIBRAS, S.A. Zacatenco, D.F. *Vitrofibras*

NETHERLANDS

AKZO FIBRES AND POLYMERS DIVISION, ENKA bv

Aramid	Arnhem, Emmen *Arenka* (yarn)
Nylon 6	Emmen *Enka Perlon Enkalon* (yarn)
Polyester	Emmen *Diolen, Terlenka* (yarn & staple)
Rayon	Arnhem (ind yarn) & Ede (reg yarn)

DU PONT DE NEMOURS (NEDERLAND) N.V.

Spandex	Dordrecht *Lycra* (fused multifil)

OLEFIN FIBER

LANKHORST TOUWFABRIEKEN B.V. Sneek *Tiptolene* (E monofil & P film)

T.T.C. POLYOLEFINS B.V. Nijverdal (P monofil, film & staple)

N.V. VERTO Rotterdam (P film)

GLASS FIBER

SILENKA B.V. Hoogezand (Groningen) *Silenka*

Artificial (cellulosic) production and capacity data are combined with Belgium on pages 108 - 111. Synthetic (noncellulosic) production and producing capacity data are combined with Belgium and Luxembourg under "Benelux" on pages 104 - 107.

NICARAGUA

OLEFIN FIBER

MANUFACTURERA CENTRO AMERICANA S.A. (MACEN) Managua (P film)

NIGERIA

NICHEMTEX INDUSTRIES LTD.

Polyester	Ikorodu, Lagos *Nigerlene* (yarn & staple)

NORWAY

OLEFIN FIBER

A/S PLATON, AVD. TEKSTIL Notodden *Filmtex* (E & P film)

NORFIL-NORPACK A/S Stavern, near Larvik *Akvaflex* (P yarn, E & P monofil & film)

STAL OG TAU Tonsberg *Norseflex* (P film)

GLASS FIBER

NORSK GLASSFIBER A/S Birkeland

PAKISTAN

BENGAL FIBER INDUSTRIES, c/o BENGAL OIL MILLS LIMITED

Nylon 6	Karachi *Nylpak* (yarn)
Polyester	Karachi (yarn & staple)

DILON LIMITED

Nylon 6	Landhi *Dilon* (yarn)
Polyester	(yarn*)

GATRON INDUSTRIES LIMITED

Polyester	Hub Chowki (yarn)

HASHWANI GROUP

Polyester	Sind Province (yarn)

ICI PAKISTAN MANUFACTURERS LTD

Polyester	Lahore *Tere-Pak* (staple)

NATIONAL FIBERS LIMITED

Polyester	Korangi, Karachi (yarn & staple)

NILOM NYLON MILLS LIMITED

Nylon 6	Lyallpur *Nilom* (yarn & monofil)

PAK FIBRE INDUSTRIES LIMITED

Polyester	Hub Chowki (yarn)

POLYTEX

Polyester	(yarn)

RAVI RAYON LIMITED

Acetate	Kala Shah Kaku, Sheikhupura District *Krasil* (yarn)

RUPALI POLYESTER LIMITED

Polyester	Karachi (yarn & staple)

S.G. RAYON MILLS LIMITED

Polyester	Karachi (yarn)

SYNTHETIC POLYLON

Polyester	Katri (yarn), Hub Chowki (staple)

PERU

BAYER INDUSTRIAL S.A.

Acrylic	Lima *Dralon* (staple)

FILAMENTOS INDUSTRIALES, S.A.

Nylon 6	Lima* (yarn)
Polyester	Lima (yarn)

MANUFACTURA NYLON S.A.

Nylon 6	Vitarte, near Lima (yarn)
Polyester	Vitarte *Diolen* (staple)

MANUFACTURAS DEL SUR S.A.

Nylon 6	Arequipa *Long Life, Mistilon* (yarn)
Polyester	Arequipa (yarn & staple)

PERU (continued)

RAYON INDUSTRIAL S.A.

Acetate	Lima (yarn)
Nylon	Lima (staple)
Polyester	Lima *Forcel* (yarn, staple, tow & tops)

RETEX PERUANA, S.A.

Nylon 6	Ventanilla, Callao (yarn)

OLEFIN FILM FIBER, only

NORSAC S.A. Trujillo

POLICEL DEL PERU S.A. Lima

SACOS DEL SUR S.A. Arequipa

SACOS PISCO S.A. Pisco

PHILIPPINES, REPUBLIC OF THE

FIBERTEX CORPORATION

Nylon 6	Taytay, Rizal *Texfiber* (yarn)

FILIPINAS SYNTHETIC FIBER CORPORATION

Polyester	Sta. Rosa, Laguna *Filsyn* (yarn & staple)

HI-LON MANUFACTURING CORPORATION

Nylon 6	Calamba, Laguna Philippine Polyamide (yarn)

INDOPHIL FIBER CORPORATION

Rayon	Manila (staple)

LAKEVIEW INDUSTRIAL CORPORATION

Polyester	Carmona, Rizal *Licron* (yarn & staple)

OLEFIN FIBER

INDUSTRIAL TEXTILE MANUFACTURING CO. (ITEMCOP)
Mandaluyong, Rizal (P film)

MANILA CORDAGE COMPANY Manila (P film)

POLAND

CHODAKOWSKIE ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX"

Rayon	Sochaczew (reg yarn)

WROCŁAWSKIE ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX"

Rayon	Wrocław (reg yarn)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-ANILANA"

Acrylic	Łódz *Anilana* (staple)
Azlon	Łódz *Wipolan* (staple, casein base)

POLAND (continued)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-CELWISKOZA"

Polyester	Jelenia Góra *Elana* (staple)
Rayon	Jelenia Góra (staple)
Spandex	Jelenia Góra (pilot plant) *Elaston* (yarn)

ZAKŁADY WŁOKIEN CHEMICZNYCH "ELANA"

Polyester	Torun, Bydgoszcz *Torlen* (yarn) *Elana* (staple)

ZAKŁADY WŁOKIEN CHEMICZNYCH "STILON"

Nylon 6	Gorzów Wielkopolski *Lanastil, Stilon* (yarn) *Polana* (staple)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-WISKORD" •

Rayon	Szczecin Zydowce (reg yarn)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-WISTOM"

Rayon	Tomaszów Mazowiecki, Łodz (ind & reg yarn & staple)

OLEFIN FIBER

ZAKŁADY PRZEMYSŁU LNIARSKIEGO LENKO Bielsko Biala (P film)

ZAKŁADY PRZEMYSŁU LNIARSKIEGO SKARBKOW Mirsk, Wrocław (P staple)

ZAKLADY WŁOKIEN CHEMICZNYCH "CHEMITEX-WISKORD" Szczecin Zydowce (P staple)

GLASS FIBER

KROSNIENSKIE HUTY SZKŁA Krosno

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-ANILANA" Łódz *Polsilon*

PORTUGAL

COMPANHIA INDUSTRIAL DE FIBRAS ARTIFICIAIS (CIFA), S.A.R.L.

Nylon 6	Sobrado, Valongo *Cifalon* (yarn)
Rayon	Sobrado (reg yarn & staple)

FIBRAS SINTETICAS DE PORTUGAL, S.A.R.L. (FISIPE)

Acrylic	Lisbon *Vonnel* (staple, tow & tops)

FINICISA - FIBRAS SINTETICAS, S.A.R.L.

Polyester	Portalegre, Alto Alentejo *Terylene* (staple)

HOECHST PORTUGUESA S.A.R.L.

Nylon	Porto (monofil)

TEXTIL ARTIFICIAL DO PORTO, LDA.

Rayon	Porto (reg yarn)

OLEFIN FIBER

ALICATIFAS DA LOUSA (P staple)

PORTUGAL (continued)

FERCOL (P staple)

LUSOTUFO (P staple)

QUIMIGAL - QUIMICA DE PORTUGAL, E.P. Barreiro (P staple & film)

OLEFIN FILM FIBER, only

CERFIL Maia - Douro

CORDEX - COMPANHIA INDUSTRIAL TEXTIL, S.A.R.L. Esmoriz

COTESI - COMPANHIA DE TEXTEIS SINTÉTICOS S.A.R.L. Carvalhos

EUROFIL - INDUSTRIAS DE PETROLEOS PLASTICOS E FILAMENTOS, S.A.R.L. Lisbon

FABRICA DE TAPETES VITORIA Mira d'Aire

FERNANDES & COSTA, LDA. Seia

MANUEL RODRIGUES DE LIMA & FILHOS Cortegaca

MANUEL RODRIGUES D'OLIVEIRA, S.A. LDA. M Maia

QUINTAS & QUINTAS Povoa de Varzim

SICOR - SOCIEDADE INDUSTRIAL DE CORDOARIA S.A.R.L. Cortegaca

GLASS FIBER

QUIMIGAL - QUIMICA DE PORTUGAL, E.P. • Barreiro

ROMANIA

CIMBINATUL DE FIBRE SINTETICE CIMPULUNG MUSCEL

Polyester	Near Brasov (yarn)

COMBINATUL DE FIBRE ARTIFICIALE

Rayon	Braila, Dej* & Suceava* (ind yarn & staple)
Polyester	Vaslui (yarn)

FABRICA DE FIBRE ARTIFICIALE "VISCOFIL"

Rayon	Popesti-Leordeni, near Bucuresti (reg yarn)

FABRICA DE FIBRE ARTIFICIALE "VISCOZA"

Rayon	Lupeni (reg yarn)

INTREPRINDERA DE FIBRE SINTETICE CORABIA

Polyester	North of Pleven (yarn)

UZINA DE FIBRE SINTETICE IASI

Polyester	Iasi *Teron* (yarn, staple, tow & tops)

UZINA DE FIBRE SINTETICE SAVINESTI

Acrylic	Savinesti, near Piatra Neamt (Bacau Region) *Melana* (staple & tops)
Nylon 6	Savinesti *Relon* (yarn & staple)

SOUTH AFRICA, REPUBLIC OF

CONSOLIDATED TEXTILE MILLS (part of Frame Group of Companies)
Polyester Jacobs, Natal (yarn & staple captive)

HOECHST SOUTH AFRICA (PTY.) LTD.
Polyester Milnerton, Cape Province *Trevira* (staple)

SOUTH AFRICAN NYLON SPINNERS (PTY.) LIMITED
Nylon 66 Bellville, Cape Province *Bri Nylon* (yarn)
Polyester Bellville & Hammarsdale, Natal *Terylene* (yarn)

OLEFIN FIBER

ROMATEX MILLS Jacobs, Natal (P film)

SPAIN

BRILEN S.A.
Polyester Barbastro, Huesca & Igualada, Barcelona (yarn & staple)

COURTAULDS FIBRES S.A.
Acrylic Prat de Llobregat, Barcelona *Courtelle* (staple & tow)

DE FIBER S.A.
Nylon 66 Vendrell, Tarragona

INDUSTRIAS DEL ACETATO DE CELULOSA, S.A. (INACSA)
Acetate La Batllona, Barcelona (yarn)

INDUSTRIAS QUIMICAS TEXTILES S.A. (INQUITEX)
Nylon 6 Andoain, Guipuzcoa *Carbyl, Nylhair, Trinyl* (yarn & staple)

LA SEDA DE BARCELONA, S.A.
Nylon 6 Alcalá de Henares, Madrid *Dayan, Enkalon* (yarn & staple)
Polyester Prat de Llobregat, Barcelona *Terlenka* (yarn & staple)
Rayon Prat de Llobregat (reg yarn)

MONTEFIBRE HISPANIA S.A.
Acrylic Miranda de Ebro, Burgos *Leacril* (staple)

NUREL S.A.
Nylon 6 Zaragoza, Zaragoza *Nurel* (yarn & staple)
Polyester Zaragoza *Terylene* (yarn & staple)

SOCIEDAD ANONIMA DE FIBRAS ARTIFICIALES (SAFA)
Nylon 66 Blanes & San Julian de Ramis, Gerona *SAFA* (yarn & staple)
Polyester Blanes *Tergal, Teriber* (yarn & staple)

SOCIEDAD NACIONAL DE INDUSTRIAS APLICACIONES CELULOSA ESPANOLA, S.A. (SNIACE)
Nylon 6 Torrelavega, Santander *Lilion* (yarn & staple)
Rayon Torrelavega (staple)

SPAIN (continued)

OLEFIN FIBER

PAULAR, S.A. - EMPRESA PARA LA INDUSTRIA QUIMICA Puertollano, C.R. *Istrakin* (P monofil & film)

PROFILEX (P staple)

PROPILAN (P staple)

SERINA TEXTIL (P staple)

SOCIEDAD ANONIMA ITALO ESPANOLA (SAITES) Sabadell, Barcelona (P staple & film)

TEXTILE ARMENGOL Bruch, Barcelona (P staple & film)

OLEFIN FILM FIBER, only

CONDEROLS S.A. Granada

CORDELERIAS BARAS S.A. Gijon, Asturias

CORDELERIAS MAR S.A. Vigo, Pontevedra

HILATURAS Y CORDELERIA S.A. - "HILCOSA" Barcelona

HIRESA Callosa de Segura, Alicante

YUTE INDUSTRIAL S.A. Valencia

GLASS FIBER

CRISTALERIA ESPANOLA - DIVISION FIBRA DE REFUERZO Alcalá de Henares, Madrid *Fibra de Refuerzo VETROTEX*

SRI LANKA

CEYLON PETROCHEMICAL CORPORATION
Nylon 6 Sapugaskan (yarn & monofil)

SWEDEN

SVENSKA RAYON AKTIEBOLAGET
Rayon Alvenas, Valberg (staple)

OLEFIN FIBER

SONDEX AB Malmo *Laveten* (E & P monofil)

GLASS FIBER

SCANDINAVIAN GLASFIBER AKTIEBOLAG Falkenberg

SWITZERLAND

EMS INDUSTRIES, LTD.
Nylon 6 Ems, Graubünden *Grilon* (staple)
Polyester Domat/Ems *Grilene* (staple)

SWITZERLAND (continued)

NOYFIL S.A.

Nylon 6	Stabio (yarn)
Polyester	Stabio (yarn)

VISCOSUISSE A.G.

Nylon 6/66	Emmenbruecke, Luzern & Widnau, St. Gallen *Nylsuisse, Flixor* (yarn & staple)
Polyester	Widnau *Tersuisse* (yarn)

OLEFIN FILM FIBER, only

AROVA SCHAFFHAUSEN A.G. Schaffhausen

POLY-STEGN A.G. Flurlingen

VOGT & CO. Reinach

TAIWAN

BAN SHIN FIBER CO., LTD.

Nylon 6	Kaohsiung *Sun & Colorful Seal* (yarn)

CENTURY EVERGREEN CORP.

Polyester	Tainan *Centuron* (yarn)

CHENTA CHEMICAL INDUSTRIAL CORPORATION

Nylon 6	Kaohsiung *Rabbit* (yarn)

CHI YURN FIBER MILLS

Nylon	Tao Yuan (staple)

CHINA MAN-MADE FIBER CORPORATION

Rayon	Tou Fen *Queen* (reg yarn & staple)

CHUNG SHING TEXTILE CO., LTD.

Nylon 6	Tao Yuan *Tasinlon, Threegun* (yarn)
Polyester	Tao Yuan *Tasinlon* (yarn & staple)

FAR EASTERN LTD.

Polyester	Hsin Chu *Eastlene, Eastlon* (yarn & staple)

FORMOSA CHEMICALS & FIBER CORPORATION (part of Formosa Plastics Group)

Nylon 6	Chang Hwa *Sunylon* (yarn)
Rayon	Chang Hwa *Tarsiyon* (reg yarn & staple)

FORMOSA PLASTIC CORPORATION - Tairylan Plant (part of Formosa Plastics Group)

Acrylic	Kaohsiung & Lanchu *Tairylan* (staple, tow & tops)

FUPONT SYNTHETIC INDUSTRIAL CO.

Nylon 6	Tao Yuan *Full-long* (yarn)

HUALON CORPORATION

Nylon 6	Chungho, Tao Yuan & Tou Fen (yarn)
Polyester	Chungho, Tou Fen & Yim Kao *Hualon* (yarn & staple)

HUNG CHOU CHEMICAL INDUSTRY COMPANY, LTD.

Polyester	Kwei Shan *Hunvira* (yarn)

TAIWAN (continued)

JANG DAH NYLON INDUSTRIAL CORP., LTD.

Nylon 6	Hsin Tien *Yuan Pao* (yarn)

NAN-YA PLASTIC CO., POLYESTER FIBER DIVISION (part of Formosa Plastics Group)

Polyester	Tai Shan *Tairilin* (yarn & staple)

SAN YUAN HSING ENTERPRISE COMPANY

Nylon 6	Kaosiung (monofil - captive)

SHINKONG SYNTHETIC FIBERS CORPORATION

Polyester	Tao Yuan *Shinlon* (yarn & staple)

SYNTHETIC FIBER MILLS CORPORATION

Nylon 6	Tao Yuan *Synlon* (yarn)

TA MING FIBERS INDUSTRIAL CORPORATION

Nylon 6	Tao Yuan *Ta Ming Nylon* (yarn)
Polyester	Tao Yuan *Poylon* (yarn)

TAINAN SPINNING CO., LTD.

Polyester	Tainan & Tao Yuan *Nanlon* (yarn)

TONG HWA SYNTHETIC FIBER CO., LTD.

Acrylic	Chu Pei *Townflower* (staple & tow)

TUNG HO SPINNING WEAVING & DYEING CO., LTD.

Polyester	Tainan *Pearlylene* (staple)

TUNTEX DISTINCT CORP.

Polyester	Hsin Su *Tuntex* (yarn & staple*)

UNITED SYNTHETIC FIBERS CORPORATION

Polyester	Tao Yuan *King Long* (staple)

VANLON FIBERS INDUSTRIAL CORPORATION

Nylon 6	Tao Yuan *Vanlon* (yarn)
Polyester	Tao Yuan *Vanlon* (yarn)

YU HO FIBER INDUSTRIAL CORPORATION

Polyester	Tao Yuan *Luxlen* (yarn)

OLEFIN FIBER

CHIA YANG INDUSTRIAL CO., LTD. Hsi-Chih (P monofil)

CHIEN SUN PLASTIC INDUSTRIAL CO., LTD. Hsin-Chu (E & P film)

CHINA FOLEX CORPORATION Shih-Lin (E & P monofil)

CHUNG KUANG PLASTIC CO., LTD. Chang-Hua (E & P film)

FULLMARK INDUSTRIAL CO., LTD. Hsin-Chu (E & P monofil)

FUU WON CHEMICAL INDUSTRIAL CO., LTD. Tu-Chen (P yarn)

HSIEH CHIN FISHING NET COMPANY, LTD. Kaohsiung *Hsieh Chin* (E monofil - captive)

HUNG FENG ENTERPRISE CO., LTD. Yang-Mei (P monofil)

IEN YI FIBER INDUSTRIAL CO., LTD. Chi-Do Goble (E monofil)

TAIWAN (continued)

JUI I CHEMICAL INDUSTRIAL CO., LTD. Tou Yuan (E & P monofil)

KUO HSIANG ENTERPRISE CO., LTD. Yang Mei (E & P monofil)

LIEN FU CHEMICAL COMPANY LTD. Tou Fen (E & P monofil)

MEI LON FIBER CO., LTD. Chang Hua (E monofil)

PAO TSUNG TAI INDUSTRIAL COMPANY LTD. Tainan (P film)

POLON FIBER INDUSTRIAL CO., LTD. Chung Li (P monofil)

SAN YANG INDUSTRIAL COMPANY LTD. Nei Hu Hsiang (P film)

TAI YEE CHEMICAL INDUSTRIAL CO., LTD. Chung Li (E & P monofil)

UNITED FIBER INDUSTRIAL CO., LTD. Chung Li (E & P monofil)

YAO CHENG PLASTIC CO., LTD. Pan Chiao (P yarn)

TANZANIA

SUN FLAG TEXTILE KNITWEAR MILLS LTD.
Polyester Arusha (yarn)

THAILAND

ASIA FIBER CO., LTD.
Nylon 6 Samut Prakarn *AFC* (yarn)

HANTEX CORPORATION LTD.
Nylon 6 Mahacha, Samut Sakorn (yarn)

ORIENTAL FIBRE
Polyester Samut Sakorn (yarn)

TEIJIN POLYESTER (THAILAND) LTD.
Polyester Pathumthani, Bangkok *TEIJIN TETORON* (yarn & staple)

THAI MELON POLYESTER CO. LTD.
Polyester Pathumthani, Bangkok (yarn & staple)

THAI RAYON CO., LTD.
Rayon Ang Thong (staple)

TORAY NYLON THAI COMPANY
Nylon 6 Bangkhen, Bangkok *TNT* (yarn & monofil)
Polyester Bangkhen *TNT* (yarn)

TURKEY

AKRILIK KIMYA SANAYII A.S. (AKSA)
Acrylic Yalova *Aksa* (staple)

DUSA ENDUSTRIYEL IPLIK SANAYII VE TICARET A.S.
Nylon 6 Izmit (yarn)

TURKEY (continued)

FILAMENT SENTETIK IPLIK VE ELYAF SANAYII A.S.
Polyester Bursa *Filament* (yarn & staple)

GEMLIK SUNI IPEK VE VISKOZ MAMULLERI SANAYII MUESSESESI (GEMLIK ARTIFICIAL SILK & VISCOSE PRODUCTS INDUSTRY) (Operated by the Sumerbank)
Rayon Gemlik (yarn & staple)

INSA ISTANBUL NAYLON SANAYII A.S.
Nylon 6 Istanbul *Islon* (yarn)
Polyester Istanbul (yarn)

M.N. SABUNCU
Polyester Adana *MNS* (yarn) (idle)

NERGIS A.S.
Polyester Bursa (yarn)

POLYLEN SENTETIK IPLIK SANAYII A.S.
Polyester Bursa *Polylene* (yarn)

SANCAK TUL SANAYII LTD., STI.
Polyester Istanbul *Lalelen* (yarn) (idle)

SASA SUNI VE SENTETIK ELYAF SANAYII A.S.
Polyester Adana *Perilon* (yarn & staple)

SENTETIK IPLIK FABRIKALARI, A.S. (SIFAS) (SYNTHETIC YARN FACTORIES CORPORATION)
Nylon 6 Bursa *SIFAS* (yarn & staple)
Nylon 66 Bursa (yarn)
Polyester Bursa (yarn & staple)

SISAS
Polyester Canakkale* (yarn)

TEKSTIPLIK SANAYII VE TICARET A.S.
Nylon 6 Edirne *Dimlon* (yarn)

YALOVA ELYAF VE IPLIK SANAYII VE TICARET A.S.
Acrylic Yalova *Yalova* (staple & tow)
Modacrylic Yalova *Yalova* (staple & tow)

OLEFIN FIBER

BEZCI ELYAF SANAYII A.S. Istanbul

DINARSU ELYAF SANAYII A.S. Cerkezkoy, Tekirdag (P staple)

ELSAN ELYAF SANAYII VE TICARET A.S. Istanbul (P staple)

HALICIOGLU ELYAF SANAYII A.S. Haskoy, Istanbul (P staple)

SESAS ELYAF SANAYII A.S. Istanbul

GLASS FIBER

CAM ELYAF SANAYII A.S. Cayirova-Gebze (Izmit)

UNION OF SOVIET SOCIALIST REPUBLICS

RAYON PLANTS reported at
Balakovo, Barnaul, Cherkassy (Ukraine), Kalinin, Kamensk, Kiev, Klin, Krasnoyarsk, Leningrad, Mogilev, Ryazan, Saratov, Sokol, Sverdlovsk and Svetlogorsk
ACETATE PLANTS reported at
Engels, Fergana, Kirovakan and Moscow
NYLON PLANTS reported at
Barnaul, Chernigov, Daugavpils, Engels, Grodno, Kemerovo, Kiev, Klin, Leningrad, Rustavi, Shchekino and Zhitomer
SYNTHETIC (NONCELLULOSIC) FIBER PLANTS reported at
Kursk (polyester), Blagoveshchensk (polyester*), Kustanay (vinyon), Minsk (polyester), Mogilev (polyester), Navoi, Polotsk and Saratov(acrylic+modacrylic), Svetlogorsk (polyester)
GLASS FIBER PLANTS reported at
Astrakhan, Kalinin, Khabarovsk, Leningrad, Mingechaur, Moscow, Polotsk, Salavat, Saratov, Sevan and Severodonetsk

UNITED KINGDOM

COURTAULDS FIBRES LTD.

Acrylic	Grimsby, South Humberside *Courtelle* (staple & tow) *Courtek M* (bioactive staple) *Sekril* (high modulus staple)
Modacrylic	Coventry, West Midlands *Teklan* (staple & tow) *Neochtom FR* (staple & tow)
Polyacrylate	Coventry, *Inidex* (staple)
Rayon	Grimsby *Sarille* (staple) *Viloft* (staple & tow),Grimsby, *Tencel*, (solvent- spun staple & tow)
Acetate	Coventry, Spondon, Derbyshire *Dicel* (yarn & tow)
Triacetate	Spondon *Tricel* (yarn)

DEAN DOVE LTD.

Polyester	Stanley, Durham (yarn)

DU PONT (U.K.) LTD.

Aramid	Maydown, Kevlar (yarn)
Spandex	Maydown, Londonderry, N. Ireland *Lycra* (fused multifil)

ECTONA FIBRES LTD.

Acetate	Siddick, Workington (cigarette tow)

HOECHST FIBRE INDUSTRIES U.K. LTD.

Polyester	Limavady, Londonderry, N. Ireland *Trevira* (yarn & monofil)

ICI FIBRES (part of ICI Chemicals and Polymers Ltd.)

Biconstituent	Doncaster, Yorkshire (staple)
Nylon 66	Doncaster, Gloucester, Gloucestershire, Pontypool & Wales *Bri-Nylon, Qazul, Quintesse, Tactel, Tactesse, Tendrelle, Timbrelle* (yarn, staple & tow)
Polyester	Pontypool *Terinda, Terylene* (yarn)

NYMOFIL PLC

Nylon 6/66	Poulton-le-Fylde, Lancashire (monofil)
Polyester	Poulton-le-Fylde (monofil)

PENNINE FIBRE INDUSTRIES LTD.

Nylon 6/66	Bradford (monofil)
Polyester	Bradford, West Yorkshire (staple & tow)

UNITED KINGDOM (continued)

PERI-LUSTA PLC

Nylon 6/66	Leek, Staffordshire (monofil)

OLEFIN FIBER

BELFAST ROPEWORK CO. PLC Birmingham, W. Midlands *Bluebell* (E & P monofil, P yarn, staple & film)

DON & LOW (HOLDINGS) LTD. Forfar, Angus, Scotland (P yarn, monofil, staple & film)

F. DRAKE (FIBRES) LTD Golcar, Huddersfield, Yorkshire *Gymlene* (P staple)

F. DRAKE & CO. OF GOLCAR LTD. Golcar, Huddersfield (P yarn)

HALL'S BARTON ROPERY LTD. Beverley, N. Humberside (P film and E & P monofil)

WM. HALLEY & SONS (MFG.) LTD. Dundee, Scotland

PLASTICISERS LTD. Drighlington, Yorkshire *Drylene* (E monofil), *Charisma, Duron, Fibrite, Tritor* (P yarn, monofil, film & staple)

POLYOLEFIN FIBRES & ENGINEERING LTD. Halifax, Yorkshire *Downspun* (P staple)

READICUT INT'L. PLC. Brighouse, W. Yorks

J & D WILKIE LTD. Kitriemuir, Angus, Scotland

OLEFIN FILM FIBER, only

AMOCO FABRICS & FIBERS CO., DIVISION OF AMOCO (U.K.) PLC Consett, Dundel, Durham

BONAR TEXTILES Dundee, Scotland

BRIDON FIBRES & PLASTICS LTD. Gateshead & Sunderland, Durham & Wallsend, Northumberland *Broplene, Red Star, Viking*

SCOTT & FYFE LTD. Tayport, Fife, Scotland

A.G. SCOTT TEXTILES LTD. Dundee, Scotland

SMITH & NEPHEW TEXTILES LTD. Newhey, near Rochdale, Lancashire *Polyweave*

SYNTHETIC INDUSTRIES (IRELAND) LTD. Newry, Down, N. Ireland

GLASS FIBER

FIBREGLASS PLC (Subsidiary of Pilkington Brothers PLC) Wrexham, Clwyd, Wales *Fibreglass*

T GLASS FIBRES PLC Camberley, Surrey & Hindley Green, Lancashire

FIBREGLASS-REGINA, a joint venture of FIBREGLASS PLC and the BBA GROUP PLC, is producing textile glass tissue (voile) at Liversedge and St. Helens, Merseyside.

UNITED STATES OF AMERICA

ALBANY INTERNATIONAL - MONOFILAMENT PLANT •

Fluoro	Homer, NY *Halar, Kynar, Tefzel* (monofil)
Nylon 6, 66 & 612	Homer (monofil)
Polyester	Homer (monofil - regular & hydrolysis-resistant)

ALLIED-SIGNAL INC. ENGINEERED MATERIALS SECTOR, FIBERS DIVISION •

Nylon 6	Columbia, SC & Hopewell, VA *A.C.E., Anso-Tex, Anso IV HP, AnsoV Worry Free, Anso X, Capima, Caplana, Caprolan, Caprolan 2000, Caprolan 2000 Sea Gard, Caprolan 2000 Stay Gard, Captiva, Compet, Creme De Captiva, Hydrofil, Iron Clad Patina, Sea Gard, TEC* (yarn,monofil & staple)
Polyester	Moncure, NC *A.C.E., A.C.E. Sea Gard, Compet, Stay Gard* (yarn & monofil)

AMERICAN CYANAMID COMPANY, FIBERS DIVISION

Acrylic	Milton, FL *Creslan* (staple & tow)

AMERICAN POLYCRAFT, INC. •

Nylon 6	Dalton, GA (yarn)

AMETEK INC., SPECIAL FILAMENTS DIVISION •

Nylon 6, 66, 612 & 11	Odenton, MD (monofil)
Polyester	Odenton (monofil)
Saran	Odenton (monofil)

AVTEX FIBERS INC. •

Polyester	Lewistown, PA *Avlin* (yarn)
Rayon	Front Royal, VA *Aviloc Avril, Avril II, Avril III, Avril Prima* Fibers 40 & 43 (ind yarn & staple)

BASF CORPORATION FIBERS DIVISION

Nylon 6	Enka, NC, Anderson & Central, SC and Lowland, TN *Crepeset, Shimmereen, Vivana, Zefsport, Zeftron, Zeftron 500, Zeftron 500 ZX* (yarn & staple)
Polyester	Lowland *Golden Glow, Golden Touch, Silky Touch, Strialine, Ultra Touch* (yarn)
Rayon	Lowland *Zantrel, Zantrel Plus*™ (staple)

BEAULIEU OF AMERICA, INC.•

Nylon 6	Bridgeport, AL (yarn)

BERKLEY & CO., INC. •

Nylon 6	Spirit Lake, IA (monofil)

CAMAC CORPORATION •

Nylon 6	Bristol, VA *Camalon* (yarn)

COLOR-FI, INC.

Nylon	Sumter & Trenton, SC (staple & tow)
Polyester	Sumter & Trenton (staple & tow)

UNITED STATES OF AMERICA (continued)

CONCORDE FIBERS, INC. •

Nylon 6	Jamestown, SC (yarn)

CORTLAND LINE COMPANY, INC.

Nylon 6	Cortland, NY (monofil - captive)

COURTAULDS FIBERS INC.

Rayon	Le Moyne, *Fibro* Mobile County, AL (staple)

DORSETT CARPET MILLS INC. •

Nylon 6	Chatsworth, GA (yarn)

E.I. DU PONT DE NEMOURS & COMPANY (INC.) •

FIBERS DEPARTMENT •

Acrylic	Camden, SC & Waynesboro, VA *Orlon* (staple & tow)
Aramid	Richmond, VA *Kevlar* (yarn), *Nomex* (yarn, staple & tow)
Nylon 66	Seaford, DE, Camden, SC, Chattanooga, TN and Martinsville, Richmond & Waynesboro, VA *Antron* (yarn, monofil, staple & tow)
Polyester	Kinston & Wilmington, NC, Camden & Charleston, SC *Dacron*, (yarn, staple, tow & fiberfill)
Spandex	Waynesboro *Lycra* (fused multifill or coalesced monofil)

POLYMER PRODUCTS DEPARTMENT

Nylon 6, 66, 612 & Polyester	Parkersburg, WV *Dacron, Dymetrol, Tynex, Vylor* (monofil of 50 denier & coarser)

EASTMAN KODAK COMPANY - EASTMAN CHEMICALS DIVISION

Acetate	Kingsport, TN *Chromspun, Estron* (yarn)
Polyester	Kingsport, TN *Kodel* (staple)

CAROLINA EASTMAN COMPANY

Polyester	Columbia, SC *Kodel* (staple)

FIBER INDUSTRIES

Polyester	Fayetteville, NC & Darlington, SC *Fortrel* (yarn & staple)

FIRESTONE FIBERS & TEXTILES COMPANY, DIVISION OF FIRESTONE TIRE & RUBBER COMPANY

Polyester	Hopewell, VA (yarn)

FOSS MANUFACTURING CO., INC. •

Polyester	Haverhill, MA (staple - captive)

GLOBE MANUFACTURING CO.

Spandex	Fall River, MA & Gastonia, NC *Cleerspan, DC-$_{100}$ DC-$_{700}$ Glospan* (fused multifil)

THE GOODYEAR TIRE & RUBBER COMPANY, POLYESTER DIVISION

Polyester	Scottsboro, AL & Point Pleasant, WV (yarn - captive)

UNITED STATES OF AMERICA (continued)

GULF FIBERS INC.

Nylon 6	Le Moyne, Mobile County, AL (monofil)

HANOVER FIBERS DIVISION,
GUILFORD MILLS, INC.

Nylon 6	Gainesville, GA (monofil)
Polyester	Fuquay-Varina, NC (yarn & monofil)

HOECHST CELANESE CORPORATION

Acetate	Rock Hill, SC (Celriver) and Narrows, VA (Celco) (yarn, staple & tow)
Polyester	Salisbury & Shelby, NC and Spartanburg, SC *Ceylon, Comfort Fiber, ESP, Loftguard PolarGuard, Premafill Soft, Premafill Plump Serene, Superba, Trevira* (yarn, staple, tow, highloft & spunbonded)
PBI	Rock Hill (staple)
Vinyon	Rock Hill (staple)

JAMES RIVER CORP. •

Nylon 6/66	Cantonment, FL *Cerex* (spunbonded)
Polyester	Milford, NJ and Simpsonville, SC *Polyweb* (thermal bond & melt blown)

JOHNSON FILAMENTS, INC. • (subsidiary of JWI Ltd.)

Nylon 6/66	Williston, VT (monofil)
Polyester	Williston (monofil)

KAYSER-ROTH HOSIERY INC.
YARN MANUFACTURING DIVISION

Nylon 66	Creedmoor, NC (yarn - captive)

MONOFILAMENTS, INC.

Nylon 6/66	Waynesboro, VA (monofil)
Polycarbonate	Waynesboro (monofil)
Polyester	Waynesboro (monofil)

MONSANTO CHEMICAL COMPANY
FIBERS AND ENGINEERED PRODUCTS DIVISION

Acrylic	Decatur, AL *Acrilan Acrilan II, Bi-Loft, Cy Fana, DuRel, Fi-Lana II, Pa-Qel, Pil-Trol, So Lara , So-Qel* (staple & tow)
Modacrylic	Decatur *SEF, SEF Plus* (staple & tow)
Nylon 66	Pensacola, FL & Greenwood, SC *No-Shock, Ultron* (yarn, monofil & staple)

NORTH AMERICAN POLYESTER CORPORATION
Subsidary of North American Rayon Corporation

Polyester	Elizabethton, TN (staple)

NORTH AMERICAN RAYON CORPORATION

Rayon	Elizabethton, TN (ind & reg yarn & tow)

REEMAY, INC. •

Polyester	Old Hickory, TN *Reemay* (spunbonded)

SHAKESPEARE COMPANY, MONOFILAMENT DIVISION •

Nylon 6/66 610	Columbia, SC (monofil thread)
Polyester	Columbia (monofil thread)

UNITED STATES OF AMERICA (continued)

STAR FIBERS, INC.

Nylon 6	Edgefield, SC *Starbrite* (staple)

TOLARAM FIBERS, INC.•

Nylon 6 6	Ansonville, NC (yarn)
Polyester	Ansonville & Asheboro (yarn)

T.M.G. HOLDINGS, Affiliate of the Mann Group, Inc.

Acrylic	Williamsburg, Va *Zefran,Zefkrome* (staple)

WELLMAN, INC., MAN-MADE FIBER DIVISION

Nylon 6 /66	Johnsonville, SC *Wellon, Wellstrand* (staple, tow & tops)
Polyester	Johnsonville *Fillwell, Wellene, Wellstrand* (staple & tow)

YKK ZIPPER CO.

Polyester	Macon, GA (yarn)

OLEFIN FIBER

ACS INDUSTRIES, INC. Woonsocket, RI (P yarn & multifil)

ALADDIN MILLS, INC. Dalton, GA (P yarn)

ALBANY INTERNATIONAL - MONOFILAMENT PLANT Homer, NY (P monofil)

ALLIED- SIGNAL, INC. ENGINEERED MATERIALS SECTOR, FIBERS DIVISION Chesterfield, VA *Spectra* (E yarn & staple)

AMERICAN MANUFACTURING COMPANY
LAFAYETTE ROPE DIVISION Lafayette, LA *Amco, American, Bondtie, Floterope, Ultraline* (E & P monofil [illegible])

AMERICAN POLYCRAFT, INC. Dalton, GA (P yarn & film)

AMETEK INC., SPECIAL FILAMENTS DIVISION Odenton, Md (E & P monofil)

AMOCO FABRICS & FIBERS COMPANY Andalusia & Roanoke, AL, Bainbridge, Hazlehurst & Nashville, GA, Salisbury, NC & Afton, VA *Amoveve, Condesa, Genesis, Marquésa Lana, Marquésa Lana ST, Patlon, Patlon Plus, Propex III, Synera* (P yarn, monofil, film & staple)

ARLIN MFG. CO., INC. Lowell, MA (P film)

ARMSTRONG WORLD INDUSTRIES, INC. Charlotte, NC (P film - captive)

AVTEX FIBERS INC. Front Royal, VA (P staple)

BEAULIEU OF AMERICA, INC. Dalton, GA (P yarn)

BERKLEY & CO. INC. Spirit Lake, IA (E & P monofil - captive)

BLUE MOUNTAIN INDUSTRIES Blue Mountain, AL *Gold Medal, Poly Autotwine, Poly Macramé, Polylasting, TY-EZ Polytape, Tylon, Tytite* (E & P film cordage)

BRIDON CORDAGE INC. Albert Lea, MN (P film cordage)

UNITED STATES OF AMERICA (continued)

BURLINGTON INDUSTRIES, INC. Greensboro, NC (P yarn)

CALIFORINA WEBBING INDUSTRIES, INC. Los Angeles, CA (P yarn)

CAMAC CORPORATION Bristol, VA (P yarn)

CHASE PACKAGING CORPORATION Portland, OR (P film industrial goods)

CIRTEX Dalton, GA (P film)

COLUMBIAN ROPE COMPANY Guntown, MS *Polypro 6* (E & P monofil & film)

CONCORDE FIBERS, INC. Jamestown, SC (P yarn)

CROWE ROPE COMPANY Warren, ME *Crowelon* (P monofil & film)

CUMBERLAND MILLS, INC. Dalton, GA (P yarn)

CUTLASS CARPET CO. Dalton, GA (P yarn)

DIAMOND MILLS, INC. Eton, GA (P yarn & film)

DORSETT CARPET MILLS INC. Chatsworth, GA (P BCF yarn)

E.I. DU PONT DE NEMOURS & COMPANY (INC.), FIBERS DEPT. Richmond, VA *Tyvek* (E spunbonded)

ELIZABETH WEBBING MILLS CO., INC. Central Falls, RI (P yarn & film)

ENSIGN-BICKFORD INDUSTRIES, INC., FILM FIBERS DIVISION Simsbury, CT (P film)

EXXON CHEMICAL AMERICAS, INDUSTRIAL TEXTILES DIVISION Kingman, KS and Summerville, SC (P monofil & film)

FIBERS & FABRICS OF GEORGIA, INC. (subsidiary of Georgia Synthetics, Inc.) Elberton, GA (PP yarns, fibrillated, roll embossed filaments & slit tape)

FIBRES SOUTH, INC. Trussville, AL *Polystar, Trustite, Tyrite* (P film, monofil, tapes & staple)

FILAMENT FIBER TECHNOLOGY INCORPORATED Lakewood, NJ and Salisbury, NC (P yarn)

FNT INDUSTRIES INC. Menominee, MI (E monofil)

FOSS MANUFACTURING CO., INC. Haverhill, MA (P staple - captive)

GENERAL FIBERS & FABRICS, INC. La Grange, GA (P film)

GEORGIA SYNTHETICS, INC. Elberton, GA (PP carpet backing, industrial fabrics)

UNITED STATES OF AMERICA (continued)

GFF HOLDING COMPANY (formerly N.S.I., INC.) Soperton, GA (P film - captive)

HERCULES INCORPORATED, HERCULES ENGINEERED POLYMERS COMPANY, FIBERS DIVISION Oxford, GA *Elustra, Herculon, Nouvelle* (P yarn & staple)

THE HOOVEN & ALLISON COMPANY Xenia, OH (P film)

INTEGRATED PRODUCTS, INC. Rome, GA (P staple)

J & J INDUSTRIES Dalton, GA (P yarn)

JAMES RIVER CORPORATION Milford, NJ, Simpsonville, SC and Washougal VA (P spunbonded)

JOHNSON FILAMENTS Williston, VT (P monofil)

KIMBERLY-CLARK CORPORATION Corinth, MS, Balfour, NC, La Grange, GA & Neenah, WI *Accord, Duraguard, Evolution* (P spunbonded), *Cyclean, Evolution III* (P spunbonded/meltblown & laminate)

LAMBETH CORPORATION New Bedford, MA *Lambeth* (E & P monofil)

LAWRENCE HOSE COMPANY Burlington, NC (E monofil - captive)

LORETEX CORPORATION Guilderland Center, NY (E film- captive)

MIRAFI INC (subsidiary of Dominion Textiles) Moultrie, GA (P film - captive)

THE OSTERNECK COMPANY Lumberton, NC (P film)

PHILLIPS FIBERS CORPORATION (subsidiary of Phillips 66 Company) Rocky Mount, NC, Seneca & Spartanburg, SC, *Alpha, Marvess* (P yarn, staple & tow) *Ryton* (sulfar - staple)

POLYLOOM CORPORATION OF AMERICA Dayton, TN *Polyloom* (P split film)

RANGER TEXTILE CORP. (formerly Gladding Cordage Corp.) South Otselic, NY (P monofil)

REEMAY, INC. Old Hickory, TN *Typar* (P spunbonded)

SARLON INDUSTRIES, INC. Miami, FL (P monofil & film)

SHAKESPEARE MONOFILAMENT DIVISION Columbia, SC (P monofil)

SHUFORD MILLS, INC. Hickory, NC (P film cordage & twine)

SOLUTION FIBERS INC. Lafayette, GA *Better Body, Luxene* (P yarn)

SOUTHERN WEAVING, INC. Greenville, SC (P yarn)

STEVENS FIBER DIVISION, STEVENS LINEN ASSOC., INC. Dudley, MA (P staple)

UNITED STATES OF AMERICA (continued)

SUNSHINE ROPE MANUFACTURING INC. Miami, FL (E & P monofil, cordage)

SYNTHETIC INDUSTRIES Chickamauga & Dalton, GA (P film, yarn & staple)

SYNTHETIC INDUSTRIES, FIBRON DIVISION Chattanooga TN *Fibri-Cord, Fibri-Knit, Fibrilawn, Fibrilon* (P film)

TECHLON FIBERS CORPORATION Dalton, GA (P yarn)

TECHNOTRADE Dalton, GA (P yarn)

TOLARAM FIBERS, INC. Ansonville, NC (P yarn)

TRUSTITE DIVISION OF FIBRES SOUTH, INC. Clearfield, UT *Trustite, Tyrite* (P film)

TWINE PRODUCTS CORPORATION New Orleans, LA (P film)

UNITED STATES ROPE COMPANY Menlo Park, CA (P monofil)

WALL INDUSTRIES, INC. Granite Quarry, NC (E & P monofil rope & cordage)

WALTRICH PLASTIC CORPORATION Walthourville, GA (P monofil)

WAYN-TEX, INC. Waynesboro, VA *Beamette, Wayntuf* (E & P monofil & P film captive, spunbonded)

WELLINGTON PURITAN MILLS (MONTAIR DIV.) Pilot Mountain NC *Pur-Ty, Wellitite* (P yarn & E & P monofil & film)

WELLINGTON SYNTHETIC FIBRES, INC. Leesville & Summerville, SC (P yarn & monofil)

TEXTILE PRODUCTS FROM OLEFIN

CONTINENTAL (P yarn)

CONWED CORP. Conwed Plastic Netting (P embossed film for netting)

DICEY (P yarn)

E.I. DU PONT DE NEMOURS & COMPANY (INC.) (E & P embossed film for netting)

NALLE, INC. (P embossed film for netting)

RIEGEL PRODUCTS CORPORATION *Polyweb* (P meltblown)

THE 3M COMPANY (P spunbonded)

GLASS FIBER

CERTAINTEED CORPORATION, FIBER GLASS REINFORCEMENTS DIVISION Wichita Falls, TX *RO99, SatinGlass, Stitchmat, Unifilo* (roving, woven roving, mat, chopped strand & ccombination product)

UNITED STATES OF AMERICA (continued)

FIBER GLASS INDUSTRIES, INC. Amsterdam, NY (roving & woven glass reinforcements)

GAF, BUILDING MATERIALS DIVISION Irwindale, CA (chopped), Nashville, TN (chopped)

GFT (GLASS FIBER TECHNOLOGY) Chester, SC (wet chopped for shingles)

LUNDY TECHNICAL CENTER Pompano Beach, FL *RoMHOglas* (metallized glass fiber roving & strand and nonwoven metalized glass mat)

MANVILLE SALES CORPORATION MATS, FIBER, & REINFORCEMENTS DIVISION Waterville, OH & Etowah, TN Ennis, TX *Chop-Pak, Dura-Glass, Star Stran, Star Rov., Tempstran, Star Tex* (mat chopped strand,sliver, rovings & microfibers)

NICOFIBERS INC. Shawnee, OH *Conformat, Consurmat, Surmat* (mat)

NITTOBO-SCHWEBEL CORPORATION* (Yarn)

OWENS-CORNING FIBERGLAS CORPORATION Huntingdon PA, Aiken & Anderson, SC and Amarillo, TX *Beta, Bi Ply, Fiberglas, S Glass, S 2 Glass* (yarn, roving, woven roving, mat, chopped & milled)

PPG INDUSTRIES, INC. FIBER GLASS Lexington & Shelby, NC (yarn, roving, woven roving, mat, chopped & milled, and rubber reinforcement)

SUPERIOR GLASS FIBERS, INC. Bremen, OH (mat)

URUGUAY

HILADOS SINTETICOS S.A. (HISISA)

Nylon 66	Estacion Manga, Montevideo *Hisilon* (yarn)

POLIMEROS URUGUAYOS S.A.

Polyester	San José, San José (staple)

SINTETICOS SLOWAK S.A.

Nylon 6	Montevideo *Crofil* (yarn & monofil)
Nylon 66	Montevideo *Hisilon* (yarn)
Polyester	Montevideo *Terpol* (yarn)

SUDAMTEX del URUGUAY S.A.

Acetate	Colonia (yarn)

OLEFIN FIBER

ARYN S.A. Montevideo (E monofil)

CINCA S.A. Montevideo (E film)

ELABORADORA DE ARPILLERA SINTETICA S.A. (E film)

VENEZUELA

C.A. INVERSIONES ARAGUA

Nylon 6	Maracay *Sudalon* (yarn)

GOMELAST, C.A.

Spandex	Caracas *Spandaven* (yarn)

HILADOS FLEXILON

Nylon 6	Caracas (yarn)
Polyester	Caracas (yarn)

MANTEX, C.A.

Acetate	Valencia (yarn)
Polyester	Maracay, Valencia *Fortrel* (yarn & staple)

SUDAMTEX DE VENZUELA, C.A.

Polyester	Maracay (yarn & staple)

YUGOSLAVIA

HEMTEKS

Polyester	Skopje, Macedonia *Maklen* (yarn & staple)

INCEL FABRIKA CELULOZE I VISKOZE

Polyester	Banja Luka, Bosna i Hercegovina *Belira* (yarn)
Rayon	Banja Luka (staple)

INDUSTRIJA SINTETICKIK VLAKANA (PROGRES)

Nylon 6	Prizren, Koscvo Mitohijan *Supralon* (yarn)
Polyester	Istok, Kosovo Mitohijan & Prizren *Prizrenit* (yarn)

KEMICNA TOVARNA MOSTE

Nylon 6	Ljubljana, Slovenia *Yulon* (yarn)

ORGANSKO HEMIJSKA INDUSTRIJA SKOPJE (OHIS)

Acrylic	Skopje, Macedonia *Makrolan, Malon* (staple)

TEKSTILNA INDUSTRIYA "ZELE VELJKOVIC"

Nylon 6	Leskovac" (yarn & staple)

VARAZDINSKI TEKSTILNI KOMBINAT (VARTEKS)

Polyester	Varazdin (staple)

VISKOZA

Rayon	Loznica, Serbia (ind & reg yarn & staple)

OLEFIN FIBER

HEMIJASKA INDUSTRIJA U OSNIVANJU Belgrade (P staple)

GLASS FIBER

GOSTIVAR STAKLARA Staklara (roving & mat)

WORLDWIDE MANUFACTURED FIBER PRODUCER AFFILIATIONS & PERCENTAGE OF CAPITAL OWNERSHIP

Licensing and royalty agreements are not taken into account. The ownership of companies, other than manufactured fiber producers, is not listed; e.g., weaving mills, chemical producers, etc.

For each country, the percentage following the first-named producer is the portion owned by the captioned company; the remainder of the entry shows other ownership. For example, Akzo N.V. owns 40% of Fibras Quimicas and Alfa-Group owns 60%.

AKZO N.V. (NETHERLANDS)

Brazil	Companhia Bahiana de Fibras 36%, others 64%
	Polyenka 51%, others 49%
Colombia	Enka de Colombia 49%, others 51%
Ecuador	Enkador 49%, others 51%
Germany, Fed. Rep.	Enka 97%, public 3%
India	Century Enka 40%, others 60%
Mexico	Fibras Quimicas 40%, Alfa-Group 60%
Netherlands	Enka 100%
	Silenka 33.33%, PPG Industries 33.33%, others 33.33%
Spain	La Seda 58%, others 42%

AMERICAN CYANAMID COMPANY (U.S.A.)

U.S.A.	Fibers Division 100%

AMOCO CHEMICALS CORPORATION (U.S.A.)

Australia	Amoco Fabrics & Fibers Co. 100%
Brazil	Amoco Fabrics & Fibers Co. 100%
Canada	Amoco Fabrics & Fibers Co. 100%
Germany, Fed. Rep.	Amoco Fabrics & Fibers Co. 100%
U.K.	Amoco Fabrics & Fibers Co. 100%
U.S.A.	Amoco Fabrics & Fibers Co. 100%

ASAHI CHEMICAL INDUSTRY CO. LTD. (JAPAN)

India	Baroda Rayon Corp. 1%, local interests 89%, others 10%
Indonesia	P.T. Indonesia Asahi Chemical 51%, others 19%, local interests 30%
Ireland	Asahi Synthetic Fibres (Ireland) 85%, others 15%
Japan	Asahi Chemical 100%
Korea, Rep. of	Tong Yang Polyester 50%, Tong Yang Nylon 50%

BASF CORPORATION

BASF Corporation owns 100% of BASF Corporation Fibers Division and owns 100% of BASF Fibres Inc.

BAYER A.G. (WEST GERMANY)

Belgium	Bayer Antwerpen N.V. 100%
Germany, Fed. Rep.	Bayer A.G. 100%
	Faserwerke Lingen G.m.b.H. 100%
Peru	Bayer Industrial S.A. 60%

COURTAULDS, PLC (U.K.)

France	Courtaulds S.A. 100%
Italy	Novaceta S.p.A. 50%, SNIA 50%
Spain	Courtaulds Fibres S.A. 100%
	INACSA 12%, public 88%
U.K.	Courtaulds Fibres Ltd. 100%
U.S.A./Canada	Courtaulds Fibers Inc. 100%

E. I. DU PONT DE NEMOURS & COMPANY (U.S.A.)

Argentina	Ducilo 82%, Bunge & Born 18%
Brazil	Du Pont do Brasil 100%
Canada	Du Pont Canada 75%, public 25%
Germany, Fed. Rep.	Du Pont de Nemours (Deutschland) 100%
Japan	Toray-Dupont 50%, Toray Industries 50%
Luxembourg	Du Pont Fibres 100%
Mexico	Nylon de Mexico 40%, Alfa-Group 51%, public 9%
Netherlands	Du Pont de Nemours (Nederland) 100%
U.K.	Du Pont (U.K.) 100%
U.S.A.	Textile Fibers Department 100%
	Polymer Products Department 100%

ENICHEM FIBRE S.p.A. (ITALY)

Italy	Carpol S.p.A. 100%
	Terbond S.p.A. 100%

FIRESTONE TIRE & RUBBER COMPANY (U.S.A.)

Canada	Firestone Textiles Co. 100%
U.S.A.	Firestone Fibers & Textiles 100%

HARBOUR GROUP LTD. (U.S.A.)

U.K.	Synthetic Industries (Ireland) PLC 100%
U.S.A.	Fibron Corp. of Tennessee 100%
	Synthetic Industries, Inc. 100%
	Synthetic Industries (Texas), Inc. 100%

HERCULES INCORPORATED (U.S.A.)

Italy	Moplefan 50%, Montedison 50%
U.S.A.	Hercules 100%

HOECHST A.G. (WEST GERMANY)

Austria	Austria Faserwerke, Hoechst Austria 51%, Lenzing 49%
Belgium	Hoechst Celanese 100%
Brazil	Hoechst Do Brasil Quimica e Farmaceutica S.A. 100%
Canada	Celanese Canada Inc. 56%, public 44%
Germany, Fed. Rep.	Hoechst A.G. 100%
	Zehlendorf 97%, others 3%
Mexico	Celanese Mexicana, S.A. 40%, public 60%
Portugal	Hoechst Portuguesa S.A.R.L. 100%
South Africa	Hoechst South Africa 100%
U.K.	Hoechst Fibre Industries 100%
U.S.A.	Hoechst Celanese Corporation 100%

IMPERIAL CHEMICAL INDUSTRIES LIMITED (U.K.)

Germany Fed Rep	ICI Europa Fibres G m b H 100%
India	Chemicals & Fibres of India Ltd 55%
Pakistan	ICI Pakistan Manufacturers 70%
Portugal	Finicisa-Fibras 50%, Francisco Fino Ltd 50%
South Africa	S A Nylon Spinners (through AECI Ltd) 38%
Spain	Nurel S A 100%
U K	ICI Fibres 100%

KURARAY CO., LTD. (JAPAN)

Japan	Kuraray 100%

MITSUBISHI RAYON (JAPAN)

Japan	Mitsubishi Rayon Co Ltd 100%
Portugal	FISIPE 4%, Mitsubishi Corp 9%, Quimigal 87%
Taiwan	Tong Hwa 19%, Mitsubishi Corp 12%, others 69%

MONTEFIBRE S.p.A. (ITALY)

Italy	Industrie Tessili Vercelli S p A 100% Societá Industriale Cremonese S p A 50%, others 50%
Spain	Montefibre Hispania S A 100%

OWENS-CORNING FIBERGLAS CORPORATION (U.S.A.)

Belgium	Owens-Corning Fiberglas Europe 100%
Brazil	OCFIBRAS 100%
Canada	Fiberglas Canada 49%, Duplate Canada 49%, local interests 2%
France	Owens-Corning Fiberglas Europe 100%
Japan	Asahi Fiber Glass 28%, Asahi Glass Co , Ltd 72%
Mexico	Vitro-Fibras 40%, Vitro Group 60%
Norway	Owens-Corning Fiberglas Europe 70%, Elkem-Spigerverket 30%
Spain	Owens-Corning Fiberglas Europe 100%
Sweden	Owens-Corning Fiberglas Europe 100%
U S A	Owens-Corning Fiberglas 100%

PPG INDUSTRIES (U.S.A.)

Netherlands	Silenka 33.33%, Akzo N V 33.33% NOM 33.33%
U K	PPG Glass Fibres Ltd 100%
U S A	Fiber Glass Products 100%
Venezuela	VFG Sudamtex 49%, Sudamtex 51%

PILKINGTON BROTHERS (U.K.)

Argentina	VASA 99.7%, Glaverbel/Boussois/local interests 0.3%
India	Fibreglass Pilkington 50%, plus 1 share, Indian interests 50%, less 1 share
South Africa	Fibreglass South Africa 24.5%, Owens-Corning Fiberglas (U S A) 24.5%, Plate Glass & Shatterprufe Industries Ltd 51%
U K	Fibreglass PLC 100%

RHONE-POULENC S.A. (FRANCE)

Argentina	Rhodia Argentina Química e Têxtil 100%
Brazil	Rhodia S A 100%, Rhodia Nordeste 99%
France	Rhône-Poulenc-Textile 99.9%, Rhône-Poulenc-Fibres 100%, Cellatex 100%, Rhovyl 100%
Germany Fed Rep	Rhodia A G 100%
Spain	SAFA 90%
Switzerland	Viscosuisse (through Holva AG) 100%

SAINT-GOBAIN (FRANCE)

France	Saint-Gobain Industries 100%
Germany, Fed Rep	Gevetex-Textilglas 100%
Italy	Vetrotex Italia 100%
Spain	Cristaleria Espanola S A 69%
U S A	CertainTeed Corp 55%, others 45%

SNIA FIBRE (ITALY)

France	Ets Nysam 100%
Italy	Novaceta 50%, Courtaulds (U K) 50% Nuova Raion Italia S p A 34.7%, others 65.3%

TEIJIN LTD. (JAPAN)

Indonesia	P T Tifico 65.8%, Toyo Menka 16.5%, local interests 17.7%
Japan	Teijin 100% Teijin Acetate 100%
Korea , Rep of	Sunkyung Fibres 2.9%, local interests 97.1%
Thailand	Teijin Polyester 45%, local interests 55%

TORAY INDUSTRIES, INC. (JAPAN)

Indonesia	P T Indonesia Toray Synthetics 59%, others 41%
Japan	Toray Industries 100%, Toray-Monofilament 100%, Toray-DuPont 50%, DuPont 50%
Korea, Rep of	Cheil Synthetic Textiles 22.8%, others 77.2% Kolon Industries 19.3%; others 80.7%
Malaysia	Penfibre SDN Berhad 100%
Thailand	Toray Nylon Thai 30%, others 70%

WELLMAN, INC. (U.S.A.)

Ireland	Wellman International 100%
U S A	Man-Made Fiber Division 100%

TABLE 10:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1989												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	6	1									7	
BRAZIL	53	110	55	0									218	
CANADA	745	619	686	613									2663	
GERMANY, FED. REP. OF	784	515	697	452									2448	
JAPAN	55	121	122	185									483	
MEXICO	156	99	171	45									471	
NETHERLANDS	61	239	261	173									734	
UNITED KINGDOM	75	68	113	135									391	
ALL OTHER COUNTRIES [a]	187	68	88	224									567	
TOTAL ARTIFICIAL YARN	**2116**	**1839**	**2199**	**1828**									**7982**	**5163**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	323	422	377	226									1348	
CANADA	4757	1990	4093	3462									14302	
GERMANY, FED. REP. OF	68	67	95	116									346	
JAPAN	150	521	422	263									1356	
UNITED KINGDOM	265	225	1	47									538	
ALL OTHER COUNTRIES [b]	414	266	656	306									1642	
TOTAL ARTIFICIAL STAPLE+TOW	**5977**	**3491**	**5644**	**4420**									**19532**	**4292**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	0	56	129	171									356	
BRAZIL	124	137	365	107									732	
CANADA	3795	3098	3138	2532									12563	
COSTA RICA	252	487	591	433									1763	
ECUADOR	91	26	144	0									261	
FRANCE	1180	1151	1079	1159									4569	
GERMANY, FED. REP. OF	2281	2204	2641	2516									9642	
IRELAND	121	114	240	77									552	
ISRAEL	299	217	172	149									837	
ITALY	1094	323	873	883									3173	
JAPAN	893	1251	1065	966									4175	
KOREA, REP. OF	15	49	7	81									152	
MEXICO	1447	2233	2385	1857									7922	
NETHERLANDS	82	193	267	338									880	
SINGAPORE	0	25	0	33									58	
TAIWAN	50	175	650	1296									2171	
THAILAND	65	64	69	67									265	
UNITED KINGDOM	1539	1357	1492	1677									6065	
ALL OTHER COUNTRIES [c]	36	195	296	317									844	
TOTAL SYNTHETIC YARN	**13364**	**13355**	**15603**	**14659**									**56981**	**39382**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	3	9	13									25	
AUSTRALIA	31	160	1	82									274	
BELGIUM	47	99	60	56									262	
BRAZIL	0	24	0	0									24	
CANADA	1413	737	1481	1489									5120	
FRANCE	230	304	253	405									1192	
GERMANY, FED. REP. OF	1985	1758	1318	1293									6354	
INDIA	0	0	3772	3400									7172	
IRELAND	280	480	305	348									1413	
ITALY	482	394	206	46									1128	
JAPAN	1773	1757	2303	2770									8603	
KOREA, REP. OF	2297	3387	3933	4165									13782	
MEXICO	1049	372	420	1016									2857	
NETHERLANDS	31	103	99	81									314	
SWITZERLAND	146	165	134	166									611	
TAIWAN	262	235	215	808									1520	
UNITED KINGDOM	2318	2304	1643	2107									8372	
ALL OTHER COUNTRIES [d]	28	29	223	95									375	
TOTAL SYNTHETIC STAPLE+TOW	**12372**	**12311**	**16375**	**18340**									**59398**	**59662**

a. Ireland 211, Korea, Rep. of 144, Chile 110, Italy 45, Norway 32, Singapore 23, France 1, Taiwan 1

b. China, PRC 473, Australia 217, Korea, Rep. of 171, Taiwan 144, Germany, Dem. Rep. 138, Switzerland 112, Poland 110, Romania 98, France 84, Sweden 43, Italy 31, India 18, Mexico 1

c. Portugal 304, Argentina 86, Austria 74, China, PRC 57, Turkey 51, Australia 49, Egypt 44, Spain 34, Switzerland 33, El Salvador 31, Morocco 26, Chile 22, Peru 21, Hong Kong 7, Greece 2, Sweden 2, Denmark 1.

d. Spain 225, Israel 85, Germany, Dem. Rep. 42, Turkey 18, Hong Kong 3, China, PRC 2.

Effective January 1,1989 the U.S. Manufactured Imports for Consumption by Country of Origin are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

Selected U.S. Manufactured Imports for Consumption by Country of Origin for 1988 are published in the ***Textile Organon***, February 1989 issue, page 31.

TABLE 11:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

ITEM	1989												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	114	266	408	205									993	
TEXTURED	180	1	0	24									205	
OTHER	1726	1532	1671	1449									6378	
MONOFILAMENTS & STRIPS	96	40	120	150									406	
SUBTOTAL ABOVE	**2116**	**1839**	**2199**	**1828**									**7982**	**5163**
STAPLE	5924	3481	5624	4403									19432	
TOW	47	0	0	7									54	
TOPS	6	10	20	10									45	
SUBTOTAL ABOVE	**5977**	**3491**	**5644**	**4420**									**19532**	**4292**
WASTE	**18**	**122**	**47**	**213**									**400**	**5**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1037	1093	1506	1578									5214	
TEXTURED														
UP TO 450 DENIER	385	217	359	285									1246	
OVER 450 DENIER	1311	1052	1428	1294									5085	
OTHER	3820	3306	3786	3845									14757	
MONOFILAMENTS & STRIPS	72	159	58	113									402	
SUBTOTAL ABOVE	**6625**	**5827**	**7137**	**7115**									**26704**	**13164**
POLYESTER														
HIGH TENACITY	957	880	909	488									3234	
TEXTURED	883	1673	1738	1766									6060	
POY	0	40	642	1088									1770	
OTHER	1152	1481	1719	1740									6092	
MONOFILAMENTS & STRIPS	65	80	34	55									234	
SUBTOTAL ABOVE	**3057**	**4154**	**5042**	**5137**									**17390**	**11436**
OTHER SYNTHETIC FILAMENT														
TEXTURED	2057	1685	1552	1054									6348	
OTHER	1478	1389	1564	1029									5460	
MONOFILAMENTS & STRIPS	147	230	308	324									1009	
SUBTOTAL ABOVE	**3682**	**3304**	**3038**	**2407**									**12817**	**14782**
STAPLE														
NYLON	1726	1896	1845	1592									7059	
POLYESTER	5584	5594	10047	10627									31852	
ACRYLIC	1934	1028	1576	1518									6056	
POLYPROPYLENE	44	55	197	351									647	
OTHER	172	1040	651	740									2603	
TOW														
NYLON	237	433	257	504									1431	
POLYESTER	47	78	131	49									305	
ACRYLIC	2023	1709	1127	2522									7381	
OTHER	117	120	146	0									383	
TOPS	488	358	398	437									1681	
SUBTOTAL ABOVE	**12372**	**12311**	**16375**	**18340**									**59398**	**59662**
WASTE														
NYLON	1971	1804	1754	2087									7616	
POLYESTER	999	340	730	1029									3098	
OTHER	396	725	477	486									2084	
TOTAL MANUFACTURED FIBERS ABOVE	**37213**	**33917**	**42829**	**43062**									**157021**	**123391**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	229	84	46	26									385	
SPUN YARN	492	396	370	287									1545	
SPUN YARNS														
SYNTHETIC	517	686	517	258									1978	
ARTIFICIAL	0	0	0	0									0	
PUT UP FOR RETAIL SALE	71	50	27	37									185	
GRAND TOTAL ABOVE	**38522**	**35133**	**43789**	**43670**									**161114**	**154538**

SOURCE: U.S Census Bureau Report IM145X.

Effective January 1,1989 the U.S. imports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

U.S. Monthly Imports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 32.

TABLE 12:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

	1989												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	9	13	45	26									93	
TEXTURED	463	17	29	1									510	
OTHER	694	63	18	60									835	
MONOFILAMENTS & STRIPS	90	0	7	93									190	
SUBTOTAL ABOVE	**1236**	**93**	**99**	**180**									**1628**	**3705**
STAPLE	2827	1786	1325	920									6858	
TOPS	94	0	8	129									231	
SUBTOTAL ABOVE	**2921**	**1786**	**1333**	**1049**									**7089**	**6889**
WASTE	**1303**	**559**	**1587**	**1116**									**4565**	**678**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	9331	9410	7884	16614									43239	
TEXTURED														
UP TO 450 DENIER	522	586	719	666									2493	
OVER 450 DENIER	4706	5051	5459	4430									19646	
OTHER	2038	2103	2133	2188									8462	
MONOFILAMENTS & STRIPS	239	258	187	131									815	
SUBTOTAL ABOVE	**16836**	**17408**	**16382**	**24029**									**74655**	**54583**
POLYESTER														
HIGH TENACITY	3031	3122	2773	3282									12208	
TEXTURED	3651	3677	2385	2939									12652	
POY	939	1250	2204	1446									5839	
OTHER	1007	584	829	983									3403	
MONOFILAMENTS & STRIPS	208	213	203	132									756	
SUBTOTAL ABOVE	**8836**	**8846**	**8394**	**8782**									**34858**	**27167**
OTHER SYNTHETIC FILAMENT														
TEXTURED	1033	457	872	903									3265	
OTHER	1342	1471	1735	1730									6278	
MONOFILAMENTS & STRIPS	486	421	771	1317									2995	
SUBTOTAL ABOVE	**2861**	**2349**	**3378**	**3950**									**12538**	**15570**
STAPLE														
NYLON	2605	3265	3262	2629									11761	
POLYESTER	14048	10762	12940	12923									50673	
ACRYLIC	3326	5674	6643	6369									22539	
POLYPROPYLENE	1336	1569	1129	2264									6298	
OTHER	836	2036	1489	2562									6923	
TOW														
NYLON	31	50	50	108									239	
POLYESTER	37	564	472	634									1707	
ACRYLIC	1037	1761	2185	3302									8285	
OTHER	161	16	34	503									714	
TOPS	847	964	1224	2191									5226	
SUBTOTAL ABOVE	**24264**	**26661**	**29428**	**34012**									**114365**	**138187**
WASTE														
NYLON	2127	2118	2159	2883									9287	
POLYESTER	4369	3980	3189	5535									17073	
OTHER	5113	6957	8080	6731									26881	
TOTAL MANUFACTURED FIBERS ABOVE	**69886**	**70757**	**74029**	**88267**									**302939**	**287685**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	13	51	43	74									181	
SPUN YARN	0	0	0	0									0	
SPUN YARNS														
SYNTHETIC	732	959	1152	1172									4015	
ARTIFICIAL	0	0	0	0									0	
PUT UP FOR RETAIL SALE	606	740	923	580									2849	
GRAND TOTAL ABOVE	**71237**	**72507**	**76147**	**90093**									**309984**	

SOURCE: U.S. Census Bureau Report EM522

Effective January 1, 1989 the U.S. Exports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

U.S. Monthly Exports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 33.

TABLE 13:
FILAMENT YARN DOMESTIC SHIPMENTS[a]

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1988				1989			
		1985	1986	1987	1988	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(C) CELLULOSIC YARN			*(N) NYLON*				*(P) POLYESTER*				*(O) OLEFIN*		
HOSIERY[b]	N	98.1	95.1	93.2	100.3	23.1	24.9	23.9	28.4	j			
OTHER CIRCULAR KNIT[c]	N	12.9	21.3	25.3	26.4	7.1	6.4	6.7	6.2	32.5			
	P	151.2	150.3	102.8	119.5	25.6	28.2	27.9	37.8	40.4			
	C	2.6	2.0	1.1	0.6	0.2	0.2	0.1	0.1	0.2			
FLAT KNIT	C	53.0	47.8	27.9	24.3	5.7	7.7	5.8	5.1	6.0			
	N	143.6	133.8	131.4	133.4	31.2	33.1	33.2	35.9	36.1			
	P	160.8	167.1	162.5	162.1	39.2	43.0	38.6	41.3	46.0			
CARPET FACE	N	815.4	881.4	916.0	938.3	228.2	233.8	241.2	235.1	225.1			
	O	202.1	215.7	244.5	266.6	65.1	67.9	67.2	66.4	69.0			
CARPET BACKING[d]	O	354.6	404.1	425.3	427.0	107.9	113.0	102.1	104.0	105.4			
OTHER BROAD WOVEN[e]	C	111.3	126.3	122.8	141.9	31.0	35.2	36.0	39.7	35.6			
	N	71.4	76.2	79.4	78.3	20.3	17.6	19.8	20.6	21.0			
	P	420.1	344.4	379.4	391.3	89.8	95.5	94.0	112.0	100.7			
	O	225.7	271.5	317.7	336.6	84.9	83.7	82.3	85.7	87.6			
NARROW WOVEN[f]	C	1.5	2.0	2.2	4.4	1.5	1.1	0.9	0.9	1.8			
	N	31.1	33.9	42.1	42.0	11.1	11.1	9.9	9.9	9.6			
	P	40.0	44.0	66.2	81.0	15.2	18.9	17.8	29.1	18.9			
	O	15.2	17.5	17.7	19.0	4.7	4.8	4.8	4.7	4.4			
TIRES, INCL. CHAFER[g]	N	146.0	134.2	143.0	132.2	34.5	33.1	31.2	33.4	34.3			
	P	155.5	159.3	162.8	171.8	41.3	44.2	43.4	42.9	41.6			
OTHER RUBBER INDUSTRY[c g]	N	15.3	15.2	16.4	20.4	5.5	4.7	4.9	5.3	4.5			
	P	31.2	27.2	34.5	25.2	6.7	6.2	6.2	6.1	6.3			
ROPE, CORDAGE & FISHLINE	N	35.3	36.4	37.9	36.4	9.7	9.7	8.2	8.8	8.8			
	P	13.8	13.0	13.4	12.5	3.7	3.1	2.4	3.3	3.2			
	O	108.2	106.3	106.7	105.0	27.9	25.5	23.6	28.0	27.0			
ALL OTHER[h]	C	18.7	14.0	12.8	11.4	3.0	3.1	3.0	2.3	2.4			
	N	48.3	52.1	69.6	64.7	17.1	21.0	12.1	14.5	16.0			
	P	231.7	187.1	191.8	194.0	45.2	52.8	47.9	48.1	35.0			
	O	31.8	34.1	23.6	29.9	7.8	7.6	7.7	6.8	8.3			
TOTAL ABOVE	C	**187.1**	**192.1**	**166.8**	**182.6**	**41.4**	**47.3**	**45.8**	**48.1**	**46.0**			
	N	**1417.4**	**1479.6**	**1554.3**	**1572.4**	**387.8**	**395.4**	**391.1**	**398.1**	**387.9**			
	P	**1204.3**	**1092.4**	**1113.4**	**1157.4**	**266.7**	**291.9**	**278.2**	**320.6**	**292.1**			
	O	**937.6**	**1049.2**	**1135.5**	**1184.1**	**298.3**	**302.5**	**287.7**	**295.6**	**301.7**			
TOTAL DOMESTIC		**3746.4**	**3813.3**	**3970.0**	**4096.5**	**994.2**	**1037.1**	**1002.8**	**1062.4**	**1027.7**			
ALSO DIVIDED AS													
APPAREL		*1064.8*	*949.4*	*932.3*	*941.2*	*223.0*	*237.0*	*226.0*	*255.2*	*253.7*			
HOME FURNISHINGS		*1624.9*	*1746.8*	*1836.3*	*1902.6*	*463.0*	*485.0*	*475.1*	*479.5*	*468.4*			
INDUSTRIAL		*1056.7*	*1117.1*	*1201.4*	*1252.7*	*308.2*	*315.1*	*301.7*	*327.7*	*305.6*			
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET)[i]													
NYLON		114.9	115.8	NA	NA	NA	NA	NA	NA	NA			
POLYESTER		776.3	634.6	626.3	649.9	146.7	159.2	153.8	190.2	164.5			
OLEFIN		22.3	22.9	26.6	24.4	6.4	6.4	5.5	6.1	6.9			

NA No longer available.

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small quantities of polyester and cellulosic yarn are included in All Other.

c. Small quantities of olefin are included in All Other.

d. Small quantities of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Cellulosic yarn quantities included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin quantities include sliver knit backing. Also includes indirect exports.

i. These quantities are included in the Total Domestic area above.

j. Nylon quantities are included in Other Circular Knit.

TABLE 14:
STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

(R) RAYON (N) NYLON (A) ACRYLIC+MODACRYLIC (P) POLYESTER (O) OLEFIN

		ANNUAL DATA				QUARTERLY DATA							
						1988				1989			
ITEM		1985	1986	1987	1988	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
HOSIERY SWEATERS & CRAFT YARNS[a]	A	197.2	228.8	192.4	183.2	47.5	46.7	46.4	42.6	48.5			
	NPR	5.5	5.1	3.5	2.7	0.8	0.7	0.6	0.6	0.9			
PILE FABRICS[b]	A	24.5	23.2	20.8	21.3	5.0	5.7	5.6	5.0	5.1			
	P	14.9	15.0	19.7	14.7	3.9	3.6	3.3	3.9	3.7			
OTHER CIRCULAR KNIT + FLAT KNIT[c]	R	5.5	4.7	3.7	2.5	0.5	0.3	0.8	0.9	0.8			
	A	139.1	196.3	185.1	139.0	37.8	39.6	34.2	27.4	35.7			
	P	295.5	367.8	453.3	470.0	108.4	112.6	108.5	140.5	127.8			
BLANKETS[b]	A	30.2	26.7	25.7	25.1	6.4	5.6	7.9	5.2	7.4			
	P	6.2	3.7	9.2	6.9	1.8	1.4	1.6	2.1	2.3			
OTHER BROAD WOVEN	R	174.9	218.0	230.7	243.0	58.7	60.5	63.5	60.3	[illegible]			
	N	37.4	37.0	38.7	35.2	8.7	8.0	8.4	10.1	[illegible]			
	A	38.2	35.3	41.7	39.3	10.4	9.6	8.9	10.4	12.7			
	P	864.9	885.6	839.2	863.5	210.7	212.9	205.7	234.2	200.8			
	O	26.9	18.0	20.2	17.1	4.6	3.8	3.4	5.3	5.2			
CARPET FACE YARNS[f]	R	0.5	0.4	+	0.4	0.2	0.1	0	0.1	0.1			
	N	773.9	837.8	905.1	f	f	f	f	f	f			
	P	126.8	145.0	209.0	261.2	66.1	69.0	62.3	63.8	60.2			
	O	107.4	117.2	116.2	138.2	30.3	35.4	34.2	38.3	38.5			
FIBERFILL[d]	P	281.1	294.9	348.6	357.2	85.3	84.9	92.9	94.1	90.3			
FLOCK	NP	5.3	5.9	5.5	6.9	1.6	1.6	1.6	2.1	1.8			
	R	1.8	1.8	0.9	0.1	+	+	+	0.1	0			
NONWOVENS[e]	R	113.5	125.4	124.4	122.3	35.4	36.0	26.7	24.2	27.0			
	N	2.5	2.1	1.9	2.1	0.4	0.5	0.6	0.6	0.7			
	P	162.5	175.4	204.2	244.1	59.7	55.9	59.0	69.5	68.0			
	[g] VINYON+O	135.8	166.2	198.0	180.9	46.0	46.9	45.4	42.6	46.0			
ALL OTHER	R	25.9	20.8	22.7	17.2	6.9	5.0	2.9	2.4	2.7			
	N	11.2	11.9	14.8	901.4	229.0	214.0	231.1	227.3	231.4			
	A	29.5	20.9	13.6	13.2	1.9	2.1	4.3	4.9	3.6			
	P	116.9	108.3	115.0	91.3	21.5	31.4	17.3	21.1	21.4			
	[g] VINYON+O	9.6	11.3	6.7	8.0	2.9	1.5	1.8	1.8	1.9			
TOTAL ABOVE	R	323.7	373.0	383.1	386.0	101.9	102.0	94.0	88.1	99.7			
	N	830.3	894.9	966.0	944.9	239.4	223.9	241.6	240.0	242.0			
	A	458.7	531.2	479.3	421.1	109.0	109.3	107.3	95.5	113.0			
	P	1872.7	1998.6	2201.0	2311.8	558.3	572.5	551.2	629.8	575.4			
	[g] VINYON+O	279.7	312.7	341.1	344.2	83.8	87.6	84.8	88.0	91.6			
TOTAL DOMESTIC		3765.1	4110.4	4370.5	4408.0	1092.4	1095.3	1078.9	1141.4	1121.7			
ALSO DIVIDED AS													
APPAREL		*1255.0*	*1489.3*	*1479.9*	*1421.6*	*352.6*	*356.4*	*340.5*	*372.1*	*361.9*			
HOME FURNISHINGS		*1536.9*	*1625.8*	*1755.8*	*1827.5*	*451.5*	*445.9*	*455.5*	*474.6*	*467.3*			
INDUSTRIAL		*973.2*	*995.3*	*1134.8*	*1158.9*	*288.3*	*293.0*	*282.9*	*294.7*	*292.5*			

a. Olefin quantities are included in All Other
b. Rayon and nylon quantities are included in All Other
c. Nylon quantities are included in All Other
d. Rayon, acrylic and nylon quantities are included in All Other
e. Wet & dry laid and needled batts only
f. Acrylic and nylon quantities are included in All Other
g. 1987-1989 data exclude Vinyon

TABLE 15:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

	1989												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
	MANUFACTURED FIBER TOTAL SHIPMENTS[b c]													
ARTIFICIAL (CELLULOSIC)														
YARN	17.3	17.0	18.4	21.5	18.3								92.5	87.7
RAYON STAPLE	34.5	32.1	36.5	32.1	34.7								169.9	178.9
TOTAL ARTIFICIAL (CELLULOSIC)	**51.8**	**49.1**	**54.9**	**53.6**	**53.0**								**262.4**	**266.6**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	31.3	30.5	32.5	32.3	28.9								155.5	157.4
- CARPET	74.9	77.2	82.0	77.5	86.1								397.7	400.6
- TEXTILE[f]	33.9	33.2	35.0	34.6	33.8								170.5	158.8
POLYESTER - INDUSTRIAL[d]	28.6	29.7	30.9	32.2	30.4								151.8	147.2
- TEXTILE[f]	73.2	71.2	74.4	78.2	76.3								373.3	345.5
OLEFIN[e]	103.2	102.2	101.5	97.7	101.7								506.3	506.7
TOTAL YARN	**345.1**	**344.0**	**356.3**	**352.5**	**357.2**								**1755.1**	**1716.2**
STAPLE+TOW+FIBERFILL														
NYLON	82.3	78.4	88.8	76.4	81.3								407.2	392.8
ACRYLIC+MODACRYLIC	41.7	46.2	48.6	49.2	51.7								237.4	277.4
POLYESTER	205.8	192.1	212.4	214.3	206.8								1031.4	994.4
OLEFIN	31.0	31.6	32.0	31.4	31.2								157.2	150.4
TOTAL STAPLE	**360.8**	**348.3**	**381.8**	**371.3**	**371.0**								**1833.2**	**1815.0**
TOTAL SYNTHETIC (NONCELLULOSIC)	**705.9**	**692.3**	**738.1**	**723.8**	**728.2**								**3588.3**	**3531.2**
TOTAL MANUFACTURED FIBER	**757.7**	**741.4**	**793.0**	**777.4**	**781.2**								**3850.7**	**3797.8**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	11.7	10.9	11.3	10.4	9.7								9.7	12.8
RAYON STAPLE	13.0	13.2	11.7	12.5	13.4								13.4	16.5
TOTAL ARTIFICIAL (CELLULOSIC)	**24.7**	**24.1**	**23.0**	**22.9**	**23.1**								**23.1**	**29.3**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.4	24.7	22.4	22.9	24.2								24.2	25.2
- CARPET	63.5	63.2	62.8	68.7	64.0								64.0	70.3
- TEXTILE[f]	47.1	48.3	46.4	47.0	47.4								47.4	51.1
POLYESTER - INDUSTRIAL[d]	35.0	31.4	30.6	31.6	30.9								30.9	30.5
- TEXTILE[f]	73.5	76.9	81.8	85.1	85.0								85.0	79.7
OLEFIN[e]	53.1	53.8	55.2	55.3	55.0								55.0	54.6
TOTAL YARN	**296.6**	**298.3**	**299.2**	**310.6**	**306.5**								**306.5**	**311.4**
STAPLE+TOW+FIBERFILL														
NYLON	51.8	52.9	50.9	57.5	57.5								57.5	60.4
ACRYLIC+MODACRYLIC	70.5	68.3	69.0	67.3	65.2								65.2	63.7
POLYESTER	163.5	163.8	158.5	164.4	176.2								176.2	167.5
OLEFIN	31.0	31.3	32.8	34.3	35.2								35.2	37.8
TOTAL STAPLE	**316.8**	**316.3**	**311.2**	**323.5**	**334.1**								**334.1**	**329.4**
TOTAL SYNTHETIC (NONCELLULOSIC)	**513.4**	**614.6**	**610.4**	**634.1**	**640.6**								**640.6**	**640.8**
TOTAL MANUFACTURED FIBER	**638.1**	**638.7**	**633.4**	**657.0**	**663.7**								**663.7**	**670.1**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	12.1	12.8	14.1	12.0									51.0	50.0
CARPET CLASS WOOL	0.8	1.4	1.5	1.6									5.3	5.9
TOTAL RAW WOOL	12.9	14.2	15.6	13.6									56.3	55.9
RAW COTTON	289.5	301.0	339.2	305.7									1235.4	1228.7

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

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- Exports
- Inventories
- Industrial Yarn
- Carpet Yarn
- Textile Yarn
- Flat Yarn
- Feed & Producer Textured Yarn
- Shipments by Denier
- Indirect Exports

Quarterly

- Production
- Domestic Shipments
- Imports
- Exports
- Shipments by Denier
- Inventories
- Primary End Use
- Secondary End Use
- Waste Shipments
- Civil Engineering Fabric Shipments

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FIBER ORGANON

Formerly Textile Organon

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Highlights

- Worldwide Manufactured Fiber Survey in Millions of Pounds.
- Worldwide Fiber Demand Rises 2% to Reach 81,959 million pounds.
  ... Demand for manufactured fiber up 4% to 37,752 million pounds.
  ... Demand for natural fibers up slightly to 44,207 million pounds.

SHIPMENTS:

In June, total manufactured fiber shipments reached 740 million pounds, 5% below the 781 million pounds shipped in May and 2% below the 758 million pounds shipped in June 1988.

June shipments of synthetic (noncellulosic) filament yarn fell 4% to 343 million pounds and staple+tow fell 6% to 348 million pounds.

Contributing to the decrease in shipments over the previous month were acrylic+modacrylic staple down 14% or 7 million pounds and polyester textile yarn down 10 million pounds or 14%.

Year-to-date domestic shipments of manufactured fiber are up 1% and exports are down 10%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1989 JUN	1989 MAY	% CHG 6/89-5/89	1988 JUN	% CHG 6/89-6/88	YEAR TO DATE 1989	YEAR TO DATE 1988	% CHG YTD 1989-1988
ARTIFICIAL (CELLULOSIC)								
YARN	18.4	18.3	*+0.5*	17.5	*+5.1*	110.9	105.2	*+5.4*
RAYON STAPLE	30.9	34.7	*-11.0*	36.2	*-14.6*	200.8	215.2	*-6.7*
TOTAL ARTIFICIAL (CELL.)	**49.3**	**53.0**	***-7.0***	**53.7**	***-8.2***	**311.7**	**320.4**	***-2.7***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	32.6	28.9	*+12.8*	32.4	*+0.6*	188.1	189.8	*-0.9*
- CARPET	78.4	86.1	*-8.9*	79.3	*-1.1*	476.1	479.8	*-0.8*
- TEXTILE [a]	33.4	33.8	*-1.2*	32.5	*+2.8*	203.9	191.3	*+6.6*
POLYESTER - INDUSTRIAL	31.5	30.4	*+3.6*	32.3	*-2.5*	183.3	179.4	*+2.2*
- TEXTILE [a]	66.0	76.3	*-13.5*	70.5	*-6.4*	439.3	415.8	*+5.7*
OLEFIN	100.7	101.7	*-1.0*	102.8	*-2.0*	607.0	609.5	*-0.4*
TOTAL YARN	**342.6**	**357.2**	***-4.1***	**349.8**	***-2.1***	**2097.7**	**2065.6**	***+1.6***
STAPLE+TOW+FIBERFILL								
NYLON	78.3	81.3	*-3.7*	79.3	*-1.3*	485.5	471.8	*+2.9*
ACRYLIC+MODACRYLIC	44.4	51.7	*-14.1*	47.4	*-6.3*	281.8	295.1	*-4.5*
POLYESTER	193.6	206.8	*-6.4*	195.7	*-1.1*	1225.0	1189.8	*+3.0*
OLEFIN	32.1	31.2	*+2.9*	32.4	*-0.9*	189.3	212.8	*-11.0*
TOTAL STAPLE	**348.4**	**371.0**	***-6.1***	**354.8**	***-1.8***	**2181.6**	**2169.5**	***+0.6***
TOTAL SYNTHETIC (NONCELL.)	**691.0**	**728.2**	***-5.1***	**704.6**	***-1.9***	**4279.3**	**4235.1**	***+1.0***
TOTAL MANUFACTURED FIBER	**740.3**	**781.2**	***-5.2***	**758.3**	***-2.4***	**4591.0**	**4555.5**	***+0.8***
TOTAL SHIPMENTS DIVIDED AS								
DOMESTIC SHIPMENTS [b]	699.8	740.9	*-5.5*	709.3	*-1.3*	4331.5	4268.9	*+1.5*
EXPORTS [c]	40.5	40.3	*+0.5*	49.0	*-17.3*	259.5	286.6	*-9.5*

[a] Includes low denier industrial yarn.

[b] Includes olefin exports.

[c] Excludes olefin exports.

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GRAPH 1:
WORLDWIDE DEMAND FOR CERTAIN FIBERS
PERCENT SHARE

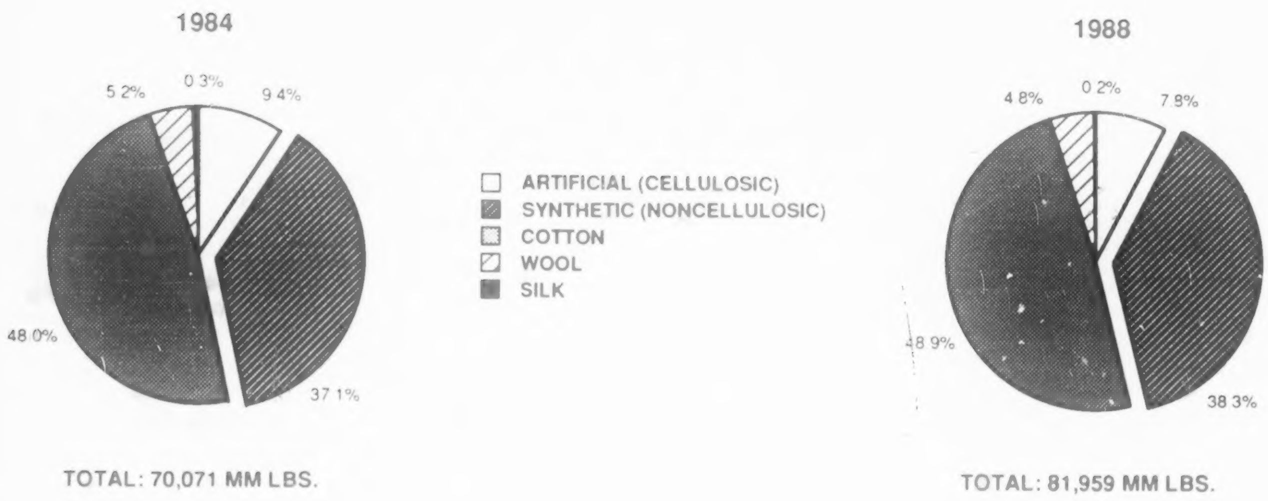


TABLE 2:
WORLDWIDE DEMAND FOR CERTAIN FIBERS
MILLION POUNDS

TYPE OF FIBER	1984	1985	1986	1987	1988	% CHANGE 1988 / 1987
ARTIFICIAL (CELLULOSIC) FIBERS						
YARN+MONOFILAMENTS	2062	2030	2047	2004	2062	*+2.9*
STAPLE+TOW	4543	4425	4267	4279	4300	*+0.5*
TOTAL ARTIFICIAL (CELLULOSIC)	**6605**	**6455**	**6314**	**6283**	**6362**	***+1.2***
SYNTHETIC (NONCELLULOSIC) FIBERS						
YARN+MONOFILAMENTS	11517	12293	12579	13364	14170	*+6.0*
STAPLE+TOW	14508	15123	15843	16765	17220	*+2.7*
TOTAL SYNTHETIC (NONCELLULOSIC)	**26025**	**27416**	**28422**	**30129**	**31390**	***+4.2***
TOTAL MANUFACTURED [a]	**32620**	**33871**	**34736**	**36412**	**37752**	***+3.5***
% of World Total	*47%*	*46%*	*44%*	*45%*	*46%*	
NATURAL FIBERS						
RAW COTTON [b]	33669	36519	40364	40042	40104	*+0.2*
RAW WOOL [c]	3649	3796	3785	3889	3962	*+1.9*
RAW SILK [d]	123	130	139	139	141	*+1.6*
TOTAL NATURAL	**37441**	**40445**	**44288**	**44070**	**44207**	***+0.3***
% of World Total	*53%*	*54%*	*56%*	*55%*	*54%*	
WORLD TOTAL	**70071**	**74316**	**79024**	**80482**	**81959**	***+1.8***
World Total %	*100%*	*100%*	*100%*	*100%*	*100%*	

The silk and manufactured fiber data are on a calendar year basis, while the figures for cotton and wool are on a seasonal basis.

a. Manufactured fiber data are from tables 4 and 5. Glass fiber, olefin and acetate cigarette tow production are not included.

b. International Cotton Advisory Committee. ***COTTON: Review of the World Situation***, May - June 1989. New series based on cotton consumption data.

c. Commonwealth Secretariat data, on a clean wool basis. See also the December 1988 ***Textile Organon***, page 263.

d. International Silk Association; Food and Agriculture Organization of the United Nations.

TABLE 3:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN
MILLION POUNDS

	ACTUAL PRODUCTION								
	1984			1985			1986		
COUNTRY	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE									
AUSTRIA	0	39.9	39.9	0	39.9	39.9	0	35.1	35.1
BENELUX[a]	167.8	53.1	220.9	177.5	66.4	243.9	160.9	75.8	236.7
FRANCE	132.7	289.9	422.6	133.8	269.0	402.8	134.9	233.7	368.6
GERMANY, FED. REP.	776.0	835.5	1611.5	793.7	886.2	1679.9	771.6	870.8	1642.4
GREECE	19.8	22.0	41.8	19.8	22.0	41.8	20.7	23.1	43.8
IRELAND	25.4	85.3	110.7	25.4	99.9	125.3	24.3	134.5	158.8
ITALY/MALTA	339.5	824.1	1163.6	378.3	864.2	1242.5	385.8	886.0	1271.8
SPAIN	171.1	403.0	574.1	187.4	418.7	606.1	187.2	421.7	608.9
SWITZERLAND	158.1	61.3	219.4	161.2	58.6	219.8	147.9	57.3	205.2
TURKEY	106.9	248.5	355.4	114.6	295.4	410.0	132.3	372.6	504.9
UNITED KINGDOM	176.4	352.7	529.1	186.7	348.3	535.0	172.4	286.6	459.0
TOTAL WESTERN EUROPE	**2073.7**	**3215.3**	**5289.0**	**2178.4**	**3368.6**	**5547.0**	**2138.0**	**3397.2**	**5535.2**
EASTERN EUROPE									
ALBANIA	0	0	0	0.9	0	0.9	0.9	0	0.9
BULGARIA	54.9	94.4	149.3	61.7	94.4	156.1	83.8	105.6	189.4
CZECHOSLOVAKIA	154.1	81.8	235.9	167.5	85.5	253.0	191.1	101.0	292.1
GERMANY, DEM. REP.	143.3	173.9	317.2	143.3	178.1	321.4	169.8	180.3	350.1
HUNGARY	19.0	27.8	46.8	18.5	31.7	50.2	18.5	34.4	52.9
POLAND	183.6	134.5	318.1	190.5	111.6	302.1	188.7	102.7	291.4
ROMANIA	125.7	258.8	384.5	127.9	306.0	433.9	129.6	310.6	440.2
USSR	821.9	629.4	1451.3	857.1	714.3	1571.4	892.4	778.2	1670.6
YUGOSLAVIA	73.9	134.3	208.2	78.3	131.2	209.5	87.5	127.0	214.5
TOTAL EASTERN EUROPE	**1576.4**	**1534.9**	**3111.3**	**1645.7**	**1652.8**	**3298.5**	**1762.3**	**1739.8**	**3502.1**
TOTAL EUROPE	**3650.1**	**4750.2**	**8400.3**	**3824.1**	**5021.4**	**8845.5**	**3900.3**	**5137.0**	**9037.3**

Y Yarn+monofilaments.
S Staple+tow+fiberfill.
a. Includes Belgium, Netherlands and Luxembourg.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1987			1986			3/1989			12/1990		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
0	34.6	34.6	0	38.4	38.4	0	48.5	48.5	0	48.5	48.5
163.1	72.8	235.9	154.1	68.6	222.7	228.2	183.0	411.2	228.2	163.1	391.3
125.2	229.7	354.9	124.8	256.6	381.4	185.2	293.2	478.4	185.2	293.2	478.4
783.3	890.7	1674.0	801.4	918.2	1719.6	923.7	950.2	1873.9	932.5	965.6	1898.1
20.7	22.0	42.7	21.2	18.7	39.9	37.5	26.5	64.0	37.5	26.5	64.0
24.3	138.9	163.2	28.7	145.9	174.6	30.9	147.7	178.6	30.9	180.8	211.7
377.0	867.7	1244.7	369.9	845.2	1215.1	429.2	950.2	1379.4	435.8	983.3	1419.1
177.5	414.5	592.0	175.5	416.2	591.7	262.3	493.8	756.1	262.3	489.4	751.7
146.0	48.7	194.7	159.2	51.6	210.8	187.4	72.8	260.2	187.4	72.8	260.2
152.1	421.1	573.2	169.8	451.9	621.7	282.2	498.2	780.4	366.0	531.3	897.3
179.5	268.1	447.6	179.5	254.9	434.4	235.9	394.6	630.5	235.9	394.6	630.5
2148.7	**3408.8**	**5557.5**	**2184.1**	**3466.2**	**5650.3**	**2802.5**	**4058.7**	**6861.2**	**2901.7**	**4149.1**	**7050.8**
1.1	0	1.1	1.1	0	1.1	4.4	11.0	15.4	4.4	11.0	15.4
87.3	107.4	194.7	90.2	108.0	198.2	132.3	200.6	332.9	132.3	238.1	370.4
195.8	102.5	298.3	203.7	105.8	309.5	221.6	191.8	413.4	221.6	191.8	413.4
171.7	177.9	349.6	184.7	185.6	370.3	213.8	282.2	496.0	213.8	282.2	496.0
15.9	37.3	53.2	18.5	39.9	58.4	26.5	50.7	77.2	26.5	94.8	121.3
198.4	102.7	301.1	198.4	111.1	309.5	242.9	185.2	428.1	242.9	189.6	432.5
131.2	313.9	445.1	131.0	316.6	447.6	149.9	383.6	533.5	149.9	394.6	544.5
959.0	884.0	1843.0	1009.0	905.6	1914.6	1089.1	1075.8	2164.9	1157.4	1186.1	2343.5
97.0	140.9	237.9	94.4	127.4	221.8	172.0	220.5	392.5	178.6	246.9	425.5
1857.4	**1866.6**	**3724.0**	**1931.0**	**1900.0**	**3831.0**	**2252.5**	**2601.4**	**4853.9**	**2327.4**	**2835.1**	**5162.5**
4006.1	**5275.4**	**9281.5**	**4115.1**	**5366.2**	**9481.3**	**5055.0**	**6660.1**	**11715.1**	**5229.1**	**6984.2**	**12213.3**

TABLE 3:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN *(CONTINUED)*

MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1984			1985			1986		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	2777.3	3697.4	6474.7	2835.7	3478.6	6314.3	2778.2	3656.5	6434.7
CANADA	153.4	130.1	283.5	165.6	127.9	293.5	166.0	141.8	307.8
OTHER AMERICAS									
ARGENTINA	60.2	47.2	107.4	59.7	37.0	96.7	67.7	53.8	121.5
BOLIVIA	0	0	0	0	0	0	0	0	0
BRAZIL	260.6	215.2	475.8	268.3	211.2	479.5	297.2	225.3	522.5
CHILE	6.2	2.4	8.6	9.0	4.4	13.4	8.8	5.1	13.9
COLOMBIA	85.1	23.6	108.7	84.4	21.8	106.2	84.0	20.3	104.3
COSTA RICA	7.7	0	7.7	7.7	0	7.7	9.3	0	9.3
ECUADOR	10.6	0	10.6	10.8	0	10.8	12.8	0	12.8
MEXICO	325.0	336.9	661.9	342.8	331.6	674.4	297.0	356.3	653.3
PERU	28.7	75.2	103.9	24.9	72.8	97.7	25.6	76.1	101.7
URUGUAY	3.5	7.5	11.0	4.0	8.8	12.8	4.0	7.1	11.1
VENEZUELA	22.5	12.1	34.6	27.6	13.2	40.8	29.5	14.3	43.8
TOTAL OTHER AMERICAS	810.1	720.1	1530.2	839.2	700.8	1540.0	835.9	758.3	1594.2
JAPAN	1397.7	1621.0	3018.7	1422.8	1669.5	3092.3	1334.2	1654.3	2988.5
CHINA, PRC	218.5	1014.8	1233.3	297.4	1316.4	1613.8	339.1	1308.7	1647.8
OTHER ASIA									
BANGLADESH	0.7	0	0.7	1.1	0	1.1	1.1	0	1.1
INDIA	234.3	123.5	357.8	281.1	145.9	427.0	306.7	179.9	486.6
INDONESIA	157.6	161.6	319.2	169.5	155.0	324.5	190.0	172.0	362.0
KOREA, REP. OF	814.8	830.9	1645.7	901.0	888.2	1789.2	962.3	938.9	1901.2
MALAYSIA	0	78.3	78.3	0	85.5	85.5	0	83.6	83.6
PAKISTAN	28.2	47.8	76.0	44.1	50.7	94.8	56.9	53.8	110.7
PHILIPPINES	45.2	28.7	73.9	48.5	26.9	75.4	44.1	33.1	77.2
SRI LANKA	2.2	0	2.2	2.6	0	2.6	2.9	0	2.9
TAIWAN	924.4	997.6	1922.0	1123.2	1133.4	2256.6	1335.1	1381.2	2716.3
THAILAND	87.5	115.5	203.0	93.9	121.3	215.2	88.2	125.7	213.9
TOTAL OTHER ASIA	2294.9	2383.9	4678.8	2665.0	2606.9	5271.9	2987.3	2968.2	5955.5
MIDDLE EAST, AFRICA & OCEANIA									
AUSTRALIA/N.Z.	28.7	2.2	30.9	32.2	2.2	34.4	35.9	2.2	38.1
EGYPT	12.1	56.4	68.5	12.3	60.8	73.1	13.9	67.5	81.4
IRAN	29.8	44.1	73.9	29.8	55.1	84.9	20.9	57.3	78.2
ISRAEL	20.9	15.4	36.3	30.2	16.1	46.3	23.1	17.6	40.7
KENYA	9.9	0	9.9	11.2	0	11.2	11.2	2.2	13.4
NIGERIA	6.6	6.6	13.2	7.1	6.6	13.7	7.7	6.8	14.5
SOUTH AFRICA	102.5	65.5	168.0	116.4	60.4	176.8	119.5	65.0	184.5
TANZANIA	4.4	0	4.4	4.4	0	4.4	5.5	0	5.5
TOTAL M.E., A. & O.	214.9	190.2	405.1	243.6	201.2	444.8	237.7	218.6	456.3
TOTAL WORLD	11516.9	14507.7	26024.6	12293.4	15122.7	27416.1	12578.7	15843.4	28422.1

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1987			1988			3/1989			12/1990		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
2875.9	3945.7	6821.6	2956.2	3981.6	6937.8	3308.7	4465.6	7774.3	3366.1	4296.6	7662.7
157.6	128.3	285.9	166.0	129.2	295.2	274.3	169.8	444.1	274.3	169.8	444.1
61.9	64.8	126.7	59.7	47.6	107.3	144.0	83.8	227.8	150.6	83.8	234.4
0	0	0	0	0	0	11.0	0	11.0	11.0	0	11.0
300.6	246.5	547.1	277.3	251.1	528.4	384.5	296.7	681.2	397.7	315.7	713.4
9.7	6.0	15.7	10.1	6.2	16.3	23.6	17.6	41.2	23.6	17.6	41.2
85.1	22.7	107.8	86.4	22.9	109.3	130.5	30.9	161.4	144.0	59.5	203.5
9.3	0	9.3	9.5	0	9.5	17.6	0	17.6	17.6	0	17.6
12.3	0	12.3	14.3	0	14.3	22.3	15.4	37.7	22.3	15.4	37.7
326.7	412.3	739.0	334.9	425.5	760.4	438.1	566.6	1004.7	466.7	634.9	1101.6
26.2	71.9	98.1	29.5	71.2	100.7	47.4	83.8	131.2	47.4	83.8	131.2
4.4	7.5	11.9	4.6	7.9	12.5	11.0	12.1	23.1	11.0	12.1	23.1
31.5	17.6	49.1	39.9	26.5	66.4	50.7	50.7	101.4	50.7	50.7	101.4
867.7	849.3	1717.0	866.2	858.9	1725.1	1280.7	1157.6	2438.3	1342.6	1273.5	2616.1
1342.2	1613.3	2955.5	1364.4	1616.0	2980.4	1823.2	2068.6	3891.8	1823.2	2068.6	3891.8
460.8	1404.3	1865.1	639.3	1494.7	2134.0	981.0	1940.0	2921.0	1000.9	2116.4	3117.3
1.1	0	1.1	1.3	0	1.3	1.5	0	1.5	1.5	39.7	41.2
353.4	233.0	586.4	440.3	267.9	708.2	760.6	714.3	1474.9	813.5	917.1	1730.6
191.8	187.2	379.0	221.8	190.9	412.7	339.5	374.8	714.3	438.7	374.8	813.5
1057.1	1081.6	2138.7	1278.9	1178.8	2457.7	1330.3	1272.1	2602.4	1570.6	1320.6	2891.2
0	85.8	85.8	0	106.3	106.3	0	154.3	154.3	0	154.3	154.3
61.3	56.0	117.3	68.6	59.3	127.9	242.5	112.4	354.9	253.5	218.3	471.8
47.4	28.0	75.4	52.9	30.9	83.8	94.8	41.9	136.7	94.8	41.9	136.7
3.3	0	3.3	3.3	0	3.3	6.6	0	6.6	6.6	0	6.6
1576.5	1490.8	3067.3	1615.3	1537.7	3153.0	1995.2	1824.1	3819.3	2178.1	1894.6	4072.7
113.1	148.1	261.2	123.5	164.0	287.5	126.1	218.3	344.4	185.6	299.8	485.4
3405.0	3310.5	6715.5	3805.9	3535.8	7341.7	4897.1	4712.2	9609.3	5542.9	5261.1	10804.0
39.9	2.4	42.3	40.6	2.6	43.2	56.2	3.3	59.5	56.2	3.3	59.5
15.2	70.8	86.0	19.4	75.4	94.8	41.9	152.1	194.0	92.6	207.2	299.8
20.9	57.1	78.0	20.5	55.1	75.6	78.3	99.2	177.5	78.3	110.2	188.5
25.4	22.0	47.4	26.5	17.6	44.1	33.1	0	33.1	33.1	0	33.1
11.0	2.4	13.4	11.0	2.4	13.4	37.5	11.9	49.4	37.5	11.9	49.4
8.8	6.8	15.6	9.9	6.8	16.7	24.3	11.0	35.3	26.5	11.0	37.5
120.8	77.2	198.0	122.6	77.6	200.2	194.0	91.9	285.9	202.8	91.9	294.7
6.6	0	6.6	6.6	0	6.6	11.0	0	11.0	11.0	0	11.0
248.6	238.7	487.3	257.1	237.5	494.6	476.3	369.4	845.7	538.0	435.5	973.5
13363.9	16765.5	30129.4	14170.2	17219.9	31390.1	18096.3	21543.3	39639.6	19117.1	22605.7	41722.8

TABLE 4:
WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY
MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1984			1985			1986		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE [a]									
AUSTRIA	32.6	240.3	272.9	32.8	240.3	273.1	DETAIL NO LONGER AVAILABLE		271.2
BELGIUM/NETHERLANDS	90.6	0	90.6	92.6	0	92.6			88.2
FINLAND	0	127.9	127.9	0	132.3	132.3			121.3
FRANCE	16.5	41.9	58.4	15.4	33.1	48.5			46.3
GERMANY, FED. REP.	134.5	121.3	255.8	141.1	121.3	262.4			262.3
GREECE	13.2	0	13.2	15.4	0	15.4			17.0
ITALY	67.5	0	67.5	66.6	0	66.6			66.1
PORTUGAL	2.2	0	2.2	2.2	0	2.2			2.0
SPAIN	15.9	57.5	73.4	16.5	66.1	82.6			81.6
SWEDEN	0	88.4	88.4	0	72.8	72.8			48.7
TURKEY	0.7	9.9	10.6	2.2	15.4	17.6			17.6
UNITED KINGDOM	46.3	234.1	280.4	41.9	132.7	174.6			127.9
TOTAL WESTERN EUROPE	**420.0**	**921.3**	**1341.3**	**426.7**	**814.0**	**1240.7**	**420.2**	**730.0**	**1150.2**
EASTERN EUROPE									
BULGARIA	9.0	81.8	90.8	9.0	82.9	91.9	9.3	83.8	93.1
CZECHOSLOVAKIA	45.2	85.1	130.3	46.1	87.3	133.4	39.7	82.0	121.7
GERMANY, DEM. REP.	77.6	297.6	375.2	78.0	291.9	369.9	78.5	269.2	347.7
HUNGARY	0	15.4	15.4	0	12.1	12.1	0	12.1	12.1
POLAND	43.0	123.5	166.5	45.2	111.6	156.8	42.1	116.6	158.7
ROMANIA	18.7	112.4	131.1	19.4	116.8	136.2	19.8	121.3	141.1
USSR	566.6	760.6	1327.2	542.3	749.6	1291.9	542.3	756.2	1298.5
YUGOSLAVIA	30.9	121.3	152.2	32.8	121.3	154.1	33.3	123.5	156.8
TOTAL EASTERN EUROPE	**791.0**	**1597.7**	**2388.7**	**772.8**	**1573.5**	**2346.3**	**765.0**	**1564.7**	**2329.7**
TOTAL EUROPE	**1211.0**	**2519.0**	**3730.0**	**1199.5**	**2387.5**	**3587.0**	**1185.2**	**2294.7**	**3479.9**

Y Yarn+monofilaments.

S Staple+tow+fiberfill.

[a] Starting in 1986 country detail is no longer available due to disclosure.

These totals do not include data for the Indonesian pilot plant nor production of artificial (cellulosic) fiber in North Korea.

Production and producing capacity by country, divided between rayon and acetate yarn, is given on pages 168 - 169.

Also note page 175 for data on production of cigarette tow.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1987			1988			3/1989			12/1990		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
DETAIL NO LONGER AVAILABLE		264.6	DETAIL NO LONGER AVAILABLE		291.0	DETAIL NO LONGER AVAILABLE		302.0	DETAIL NO LONGER AVAILABLE		297.6
		88.2			90.4			97.0			94.8
		119.0			133.4			143.3			132.3
		50.7			33.1			50.7			6.6
		260.1			269.0			288.8			273.4
		17.2			15.0			17.6			17.6
		63.9			70.5			94.8			94.8
		2.6			1.5			4.4			4.4
		77.2			81.6			97.0			86.0
		50.7			44.1			45.2			45.2
		17.6			19.2			20.9			20.9
		121.3			141.1			165.3			154.3
407.8	725.3	1133.1	414.9	775.0	1189.9	478.4	848.6	1327.0	458.5	769.4	1227.9
9.5	63.9	73.4	9.7	52.9	62.6	11.0	92.6	103.6	11.0	92.6	103.6
40.6	81.1	121.7	41.0	81.6	122.6	59.5	101.4	160.9	59.5	154.3	213.8
79.1	266.1	345.2	80.0	275.1	355.1	86.0	352.7	438.7	86.0	381.4	467.4
0	9.0	9.0	0	10.8	10.8	22.0	22.0	44.0	22.0	22.0	44.0
42.5	119.0	161.5	45.0	119.0	164.0	70.5	157.6	228.1	70.5	187.4	257.9
19.8	125.7	145.5	20.1	146.6	166.7	24.3	209.4	233.7	24.3	209.4	233.7
543.4	760.6	1304.0	581.6	743.4	1325.0	639.3	778.2	1417.5	639.3	778.2	1417.5
29.3	110.2	139.5	30.9	119.0	149.9	37.5	132.3	169.8	37.5	132.3	169.8
764.2	1535.6	2299.8	808.3	1548.4	2356.7	950.1	1846.2	2796.3	950.1	1957.6	2907.7
1172.0	2260.9	3432.9	1223.2	2323.4	3546.6	1428.5	2694.8	4123.3	1408.6	2727.0	4135.6

TABLE 4:
WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY *(CONTINUED)*

MILLION POUNDS

	ACTUAL PRODUCTION								
	1984			1985			1986		
COUNTRY	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	**239.1**	**389.6**	**628.7**	**204.6**	**353.2**	**557.8**	**214.8**	**404.2**	**619.0**
CANADA	**22.0**	**74.7**	**96.7**	**17.6**	**59.3**	**76.9**	**19.4**	**64.2**	**83.6**
OTHER AMERICAS									
ARGENTINA	4.0	3.3	7.3	3.3	3.3	6.6	6.6	10.8	17.4
BRAZIL	39.0	63.9	102.9	44.3	58.4	102.7	37.0	74.1	111.1
CHILE	2.6	8.2	10.8	2.9	8.4	11.3	2.9	8.6	11.5
COLOMBIA	4.0	0	4.0	4.0	0	4.0	4.0	0	4.0
CUBA	4.4	7.7	12.1	4.6	14.1	18.7	5.7	19.2	24.9
MEXICO	25.6	8.8	34.4	27.8	0	27.8	26.5	0	26.5
PERU	3.7	0	3.7	3.7	0	3.7	1.8	0	1.8
URUGUAY	2.2	0	2.2	2.2	0	2.2	2.9	0	2.9
VENEZUELA	4.2	0	4.2	4.6	0	4.6	3.3	0	3.3
TOTAL OTHER AMERICAS	**89.7**	**91.9**	**181.6**	**97.4**	**84.2**	**181.6**	**90.7**	**112.7**	**203.4**
JAPAN	**244.3**	**587.7**	**832.0**	**230.6**	**624.6**	**855.2**	**226.6**	**478.8**	**705.4**
CHINA, PRC	**99.2**	**238.1**	**337.3**	**110.2**	**286.6**	**396.8**	**132.3**	**286.6**	**418.9**
OTHER ASIA									
BANGLADESH	2.2	2.2	4.4	2.2	2.2	4.4	2.4	2.4	4.8
INDIA	91.9	220.7	312.6	103.4	209.4	312.8	109.3	199.3	308.6
INDONESIA	0	80.7	80.7	0	89.7	89.7	0	101.6	101.6
KOREA, REP. OF	28.2	0	28.2	30.4	0	30.4	30.6	0	30.6
PAKISTAN	6.8	0	6.8	7.1	0	7.1	7.1	0	7.1
TAIWAN	5.5	276.7	282.2	5.3	263.4	268.7	6.2	258.2	264.4
THAILAND	0	39.7	39.7	0	41.9	41.9	0	41.9	41.9
TOTAL OTHER ASIA	**134.6**	**620.0**	**754.6**	**148.4**	**606.6**	**755.0**	**155.6**	**603.4**	**759.0**
MIDDLE EAST, AFRICA & OCEANIA									
EGYPT	15.4	10.1	25.5	15.4	10.4	25.8	15.4	10.4	25.8
IRAQ	6.6	12.1	18.7	6.6	12.1	18.7	6.6	12.1	18.7
TOTAL M.E., A & O	**22.0**	**22.2**	**44.2**	**22.0**	**22.5**	**44.5**	**22.0**	**22.5**	**44.5**
TOTAL WORLD	**2061.9**	**4543.2**	**6605.1**	**2030.3**	**4424.5**	**6454.8**	**2046.6**	**4267.1**	**6313.7**

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1987			1988			3/1989			12/1990		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
191.1	414.3	605.4	213.9	400.3	614.2	244.0	476.0	720.0	254.0	493.0	747.0
18.7	62.8	81.5	20.5	72.3	92.8	32.0	83.8	115.8	32.0	83.8	115.8
6.6	5.5	12.1	6.6	0	6.6	23.8	11.0	34.8	23.8	11.0	34.8
33.1	74.7	107.8	32.8	80.7	113.5	46.5	91.9	138.4	46.5	91.9	138.4
2.9	8.8	11.7	2.9	9.0	11.9	3.3	11.9	15.2	3.3	11.9	15.2
5.1	0	5.1	5.3	0	5.3	7.7	0	7.7	7.7	0	7.7
3.5	19.4	22.9	1.5	19.6	21.1	6.6	19.8	26.4	6.6	19.8	26.4
27.1	0	27.1	27.6	0	27.6	34.8	0	34.8	34.8	0	34.8
2.4	0	2.4	2.9	0	2.9	3.7	0	3.7	3.7	0	3.7
2.6	0	2.6	2.9	0	2.9	4.2	0	4.2	4.2	0	4.2
4.9	0	4.9	4.9	0	4.9	5.3	0	5.3	5.3	0	5.3
88.2	108.4	196.6	87.4	109.3	196.7	135.9	134.6	270.5	135.9	134.6	270.5
219.1	443.3	662.4	220.0	420.6	640.6	282.9	473.8	756.7	260.6	473.8	734.4
134.5	291.0	425.5	110.2	242.5	352.7	286.6	352.7	639.3	286.6	352.7	639.3
2.9	2.9	5.8	2.6	2.4	5.0	3.3	11.0	14.3	3.3	11.0	14.3
111.8	257.5	369.3	116.0	267.9	383.9	173.9	300.0	473.9	173.9	300.0	473.9
0	110.0	110.0	0	113.3	113.3	0	147.7	147.7	0	147.7	147.7
31.1	0	31.1	33.5	0	33.5	37.5	61.9	99.4	37.5	61.9	99.4
7.3	0	7.3	7.3	0	7.3	7.3	0	7.3	7.3	0	7.3
5.3	258.4	263.7	5.7	271.6	277.3	8.8	329.4	338.2	8.8	329.4	338.2
0	47.2	47.2	0	52.9	52.9	0	66.1	66.1	0	66.1	66.1
158.4	676.0	834.4	165.1	708.1	873.2	230.8	916.1	1146.9	230.8	916.1	1146.9
15.4	10.6	26.0	15.4	11.0	26.4	15.4	11.9	27.3	15.4	11.9	27.3
6.8	12.1	18.9	6.4	12.1	18.5	7.7	14.3	22.0	7.7	14.3	22.0
22.2	22.7	44.9	21.8	23.1	44.9	23.1	26.2	49.3	23.1	26.2	49.3
2004.2	4279.4	6283.6	2062.1	4299.6	6361.7	2663.8	5158.0	7821.8	2631.6	5207.2	7838.8

TABLE 5:
WORLDWIDE RAYON VS. ACETATE FILAMENT YARN PRODUCTION & PRODUCING CAPACITY BY COUNTRY
MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1984			1985			1986		
	H	R&C	A	H	R&C	A	H	R&C	A
WESTERN EUROPE									
AUSTRIA	22	11	0	22	11	0		DETAIL NO LONGER AVAILABLE	
BELGIUM/NETHERLANDS	40	35	15	40	37	15			
FRANCE	0	15	0	0	15	0			
GERMANY, FED. REP. OF	88	46	0	88	53	0			
ITALY [a]	24	4	40	22	4	40			
SPAIN	0	9	7	0	9	7			
UNITED KINGDOM	0	0	46	0	0	42			
OTHER [b]	0	15	0	0	20	0			
TOTAL WESTERN EUROPE	**174**	**135**	**108**	**172**	**149**	**104**	**157**	**152**	**112**
EASTERN EUROPE									
BULGARIA	0	9	0	0	9	0	0	9	0
CZECHOSLOVAKIA	18	26	0	18	29	0	18	22	0
GERMANY, DEM. REP.	29	49	0	31	49	0	31	49	0
HUNGARY	0	0	0	0	0	0	0	0	0
POLAND	11	33	0	11	33	0	11	31	0
ROMANIA	11	7	0	11	9	0	11	9	0
USSR [a]	265	176	126	256	176	110	256	176	110
YUGOSLAVIA	15	15	0	18	15	0	18	18	0
TOTAL EASTERN EUROPE	**349**	**315**	**126**	**345**	**320**	**110**	**345**	**314**	**110**
U.S.A.	**29**	**13**	**198**	**20**	**13**	**172**	**15**	**13**	**185**
CANADA	**0**	**0**	**22**	**0**	**0**	**18**	**0**	**0**	**20**
OTHER AMERICAS									
ARGENTINA	0	0	4	0	0	4	0	0	7
BRAZIL	9	26	4	9	33	2	2	33	0
CHILE	0	2	0	0	2	0	0	2	0
COLOMBIA	0	0	4	0	0	4	0	0	4
CUBA	4	0	0	4	0	0	7	0	0
MEXICO	4	7	13	7	7	15	4	7	15
PERU	0	0	4	0	0	4	0	0	2
URUGUAY	0	0	2	0	0	2	0	0	2
VENEZUELA	0	0	4	0	0	4	0	0	4
TOTAL OTHER AMERICAS	**17**	**35**	**35**	**20**	**42**	**35**	**13**	**42**	**34**
JAPAN [a]	**4**	**172**	**68**	**4**	**163**	**62**	**4**	**163**	**60**
CHINA, PRC	**0**	**99**	**0**	**0**	**110**	**0**	**0**	**132**	**0**
OTHER ASIA									
BANGLADESH	0	2	0	0	2	0	0	2	0
INDIA	18	73	2	15	88	0	11	97	0
KOREA, REP. OF	0	24	4	0	26	4	0	26	4
PAKISTAN	0	0	7	0	0	7	0	0	7
TAIWAN	0	4	0	0	4	0	0	7	0
TOTAL OTHER ASIA	**18**	**103**	**13**	**15**	**120**	**11**	**11**	**132**	**11**
OTHER M.E., A & O [c]	**0**	**22**	**0**	**0**	**22**	**0**	**0**	**22**	**0**
WORLD TOTAL	**591**	**894**	**570**	**576**	**939**	**512**	**545**	**970**	**532**

H High tenacity (tire & industrial type) viscose rayon yarn
R Regular + intermediate tenacity viscose rayon yarn
C Cuprammonium rayon yarn
A Acetate + triacetate yarn
a. Produces both regular + intermediate rayon yarn and cuprammonium rayon yarn
b. Comprises Greece, Portugal and Turkey
c. Comprises Egypt and Iraq

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1987			1988			3/1989			12/1990		
H	R&C	A	H	R&C	A	H	R&C	A	H	R&C	A
DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE		
148	154	106	163	137	115	*187*	*170*	*121*	*174*	*163*	*121*
0	9	0	0	9	0	*0*	*11*	*0*	*0*	*11*	*0*
18	22	0	18	22	0	*24*	*35*	*0*	*24*	*35*	*0*
31	49	0	31	49	0	*33*	*53*	*0*	*33*	*53*	*0*
0	0	0	0	0	0	*0*	*22*	*0*	*0*	*22*	*0*
11	33	0	11	33	0	*20*	*51*	*0*	*20*	*51*	*0*
11	9	0	13	9	0	*13*	*11*	*0*	*13*	*11*	*0*
258	176	110	262	187	132	*265*	*220*	*154*	*265*	*220*	*154*
13	15	0	15	18	0	*18*	*20*	*0*	*18*	*20*	*0*
342	313	110	350	327	132	*373*	*423*	*154*	*373*	*423*	*154*
15	13	163	15	13	185	*51*	*13*	*181*	*51*	*13*	*190*
0	0	20	0	0	20	*0*	*0*	*33*	*0*	*0*	*33*
0	0	7	0	0	7	*4*	*13*	*7*	*4*	*13*	*7*
0	33	0	0	33	0	*4*	*37*	*4*	*4*	*37*	*4*
0	2	0	0	2	0	*0*	*2*	*0*	*0*	*2*	*0*
0	0	4	0	0	4	*0*	*0*	*9*	*0*	*0*	*9*
4	0	0	2	0	0	*7*	*0*	*0*	*7*	*0*	*0*
4	7	15	4	7	18	*7*	*9*	*20*	*7*	*9*	*20*
0	0	2	0	0	2	*0*	*0*	*4*	*0*	*0*	*4*
0	0	2	0	0	2	*0*	*0*	*4*	*0*	*0*	*4*
0	0	4	0	0	4	*0*	*0*	*4*	*0*	*0*	*4*
8	42	34	6	42	37	*22*	*61*	*52*	*22*	*61*	*52*
4	157	60	2	159	60	*22*	*185*	*75*	*0*	*185*	*75*
0	134	0	0	110	0	*66*	*220*	*0*	*66*	*220*	*0*
0	2	0	0	2	0	*0*	*4*	*0*	*0*	*4*	*0*
11	101	0	20	97	0	*46*	*119*	*9*	*46*	*119*	*9*
0	26	4	0	26	7	*0*	*26*	*11*	*0*	*26*	*11*
0	0	7	0	0	7	*0*	*0*	*7*	*0*	*0*	*7*
0	4	0	0	7	0	*0*	*9*	*0*	*0*	*9*	*0*
11	133	11	20	132	14	*46*	*158*	*27*	*46*	*158*	*27*
0	22	0	0	22	0	*0*	*22*	*0*	*0*	*22*	*0*
528	966	504	556	942	563	*767*	*1252*	*643*	*732*	*1245*	*652*

TABLE 6:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY FIBER EXCEPT OLEFIN
MILLION POUNDS

FIBER & AREA	ACTUAL PRODUCTION								
	1984			1985			1986		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC+MODACRYLIC									
WEST EUROPE	2	1861	1863	2	1986	1988	2	2011	2013
EAST EUROPE	0	492	492	0	540	540	0	567	567
U.S.A.	0	670	670	0	631	631	0	615	615
CANADA	0	0	0	0	0	0	0	0	0
OTHER AMERICAS	0	309	309	0	295	295	0	340	340
JAPAN	4	809	813	4	838	842	7	869	876
CHINA, PRC	0	152	152	0	161	161	0	163	163
OTHER ASIA	0	692	692	0	703	703	0	721	721
MIDDLE EAST, AFRICA & OCEANIA	0	26	26	0	35	35	0	40	40
TOTAL	6	5011	5017	6	5189	5195	9	5326	5335
NYLON+ARAMID [a]									
WEST EUROPE	1109	316	1425	1168	335	1503	1140	311	1451
EAST EUROPE	1162	190	1352	1188	205	1393	1232	218	1450
U.S.A.	1578	836	2414	1515	827	2342	1605	908	2513
CANADA	113	31	144	119	26	145	119	31	150
OTHER AMERICAS	349	21	370	386	18	404	375	24	399
JAPAN	635	42	677	642	53	695	573	42	615
CHINA, PRC	126	2	128	154	2	156	163	2	165
OTHER ASIA	758	7	765	809	11	820	853	9	862
MIDDLE EAST, AFRICA & OCEANIA	112	4	116	123	4	127	126	4	130
TOTAL	5942	1449	7391	6104	1481	7585	6186	1549	7735
POLYESTER									
WEST EUROPE	950	1019	1969	995	1028	2023	985	1055	2040
EAST EUROPE	412	844	1256	456	902	1358	528	948	1476
U.S.A.	1199	2191	3390	1321	2021	3342	1173	2134	3307
CANADA	40	99	139	46	102	148	47	111	158
OTHER AMERICAS	460	390	850	451	388	839	459	394	853
JAPAN	722	706	1428	726	712	1438	710	683	1393
CHINA, PRC	77	707	784	121	977	1098	154	1005	1159
OTHER ASIA	1537	1683	3220	1856	1891	3747	2134	2236	4370
MIDDLE EAST, AFRICA & OCEANIA	103	160	263	121	161	282	113	174	287
TOTAL	5500	7799	13299	6093	8182	14275	6303	8740	15043
OTHER FIBERS EXCEPT OLEFIN [b]									
WEST EUROPE	13	20	33	13	20	33	11	20	31
EAST EUROPE	2	9	11	2	7	9	2	7	9
U.S.A.	0	0	0	0	0	0	0	0	0
CANADA	0	0	0	0	0	0	0	0	0
OTHER AMERICAS	2	0	2	2	0	2	2	0	2
JAPAN	37	64	101	51	66	117	44	60	104
CHINA, PRC	15	154	169	22	176	198	22	139	161
OTHER ASIA	0	2	2	0	2	2	0	2	2
MIDDLE EAST, AFRICA & OCEANIA	0	0	0	0	0	0	0	0	0
TOTAL	69	249	318	90	271	361	81	228	309
TOTAL FIBERS ABOVE									
WEST EUROPE	2074	3216	5290	2178	3369	5547	2138	3397	5535
EAST EUROPE	1576	1535	3111	1646	1654	3300	1762	1740	3502
U.S.A.	2777	3697	6474	2836	3479	6315	2778	3657	6435
CANADA	153	130	283	165	128	293	166	142	308
OTHER AMERICAS	811	720	1531	839	701	1540	836	758	1594
JAPAN	1398	1621	3019	1423	1669	3092	1334	1654	2988
CHINA, PRC	218	1015	1233	297	1316	1613	339	1309	1648
OTHER ASIA	2295	2384	4679	2665	2607	5272	2987	2968	5955
MIDDLE EAST, AFRICA & OCEANIA	215	190	405	244	200	444	239	218	457
WORLD TOTAL	**11517**	**14508**	**26025**	**12293**	**15123**	**27416**	**12579**	**15843**	**28422**

Y Yarn+monofilaments
S Staple+tow+fiberfill
+ Nominal quantities

a. U.S.A. nylon producing capacity data do not include aramid

b. Other fibers are alginate, azlon, spandex or elastomer, saran, TFE-fluorocarbon, vinal and vinyon. U.S.A. production data do not include spandex

ACTUAL PRODUCTION						PRODUCING CAPACITY						% UTILIZATION [c]	
1987			1988			3/1989			12/1990				
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S
2	2026	2028	2	1993	1995	*2*	*2302*	*2304*	*2*	*2324*	*2326*	*100.0*	*87.2*
0	597	597	0	604	604	*0*	*873*	*873*	*0*	*961*	*961*	*0*	*72.5*
0	591	591	0	589	589	*0*	*642*	*642*	*0*	*648*	*648*	*0*	*92.4*
0	0	0	0	0	0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
0	397	397	0	395	395	*0*	*470*	*470*	*0*	*518*	*518*	*0*	*84.5*
7	891	898	7	871	878	*13*	*974*	*987*	*13*	*974*	*987*	*50.0*	*93.2*
0	165	165	0	187	187	*0*	*276*	*276*	*0*	*441*	*441*	*0*	*62.0*
0	758	758	0	774	774	*0*	*922*	*922*	*0*	*1005*	*1005*	*0*	*84.8*
0	44	44	0	37	37	*0*	*44*	*44*	*0*	*55*	*55*	*0*	*71.4*
9	5469	5478	9	5450	5459	*15*	*6503*	*6518*	*15*	*6926*	*6941*	*57.1*	*84.7*
1142	302	1444	1153	324	1477	*1444*	*425*	*1869*	*1486*	*406*	*1892*	*78.7*	*70.6*
1276	220	1496	1305	225	1530	*1508*	*265*	*1773*	*1552*	*265*	*1817*	*86.9*	*83.3*
1698	992	2690	1728	941	2669	*1933*	*1144*	*3077*	*2035*	*1157*	*3192*	*89.9*	*87.2*
112	29	141	119	29	148	*214*	*53*	*267*	*214*	*53*	*267*	*53.7*	*54.2*
364	22	386	353	22	375	*602*	*51*	*653*	*602*	*51*	*653*	*62.1*	*44.4*
578	37	615	589	33	622	*712*	*60*	*772*	*712*	*60*	*772*	*80.5*	*63.0*
174	2	176	220	0	220	*243*	*11*	*254*	*262*	*22*	*284*	*79.0*	*20.0*
946	13	959	1036	13	1049	*1301*	*18*	*1319*	*1391*	*71*	*1462*	*74.0*	*60.0*
132	4	136	137	4	141	*223*	*9*	*232*	*231*	*9*	*240*	*57.1*	*57.1*
6422	1621	8043	6640	1591	8231	*8180*	*2036*	*10216*	*8485*	*2094*	*10579*	*80.0*	*81.1*
994	1061	2055	1018	1130	2148	*1338*	*1305*	*2643*	*1396*	*1393*	*2789*	*75.7*	*80.1*
579	1043	1622	624	1064	1688	*743*	*1446*	*2189*	*774*	*1592*	*2366*	*78.0*	*71.9*
1178	2363	3541	1228	2452	3680	*1376*	*2679*	*4055*	*1332*	*2493*	*3825*	*87.3*	*91.5*
46	99	145	47	100	147	*60*	*117*	*177*	*60*	*117*	*177*	*74.1*	*84.9*
502	430	932	511	442	953	*677*	*637*	*1314*	*739*	*705*	*1444*	*74.7*	*69.1*
713	623	1336	725	646	1371	*1032*	*816*	*1848*	*1032*	*816*	*1848*	*69.6*	*75.2*
265	1093	1358	397	1157	1554	*705*	*1488*	*2193*	*705*	*1488*	*2193*	*46.1*	*80.1*
2459	2535	4994	2770	2745	5515	*3593*	*3772*	*7365*	*4149*	*4184*	*8333*	*77.0*	*74.6*
116	191	307	120	196	316	*254*	*317*	*571*	*307*	*371*	*678*	*52.2*	*63.3*
6852	9438	16290	7440	9932	17372	*9778*	*12577*	*22355*	*10494*	*13159*	*23653*	*75.3*	*79.2*
11	20	31	11	19	30	*18*	*26*	*44*	*18*	*26*	*44*	*62.5*	*75.0*
2	7	9	2	7	9	*2*	*18*	*20*	*2*	*18*	*20*	*100.0*	*37.5*
0	0	0	0	0	0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
0	0	0	0	0	0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
2	0	2	2	0	2	*2*	*0*	*2*	*2*	*0*	*2*	*66.7*	*0*
44	62	106	44	66	110	*66*	*218*	*284*	*66*	*218*	*284*	*66.7*	*30.3*
22	144	166	22	151	173	*33*	*165*	*198*	*33*	*165*	*198*	*66.7*	*86.7*
0	4	4	0	4	4	*2*	*0*	*2*	*2*	*0*	*2*	*0*	*0*
0	0	0	0	0	0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
81	237	318	81	247	328	*123*	*427*	*550*	*123*	*427*	*550*	*54.0*	*57.7*
2149	3409	5558	2184	3466	5650	*2802*	*4058*	*6860*	*2902*	*4149*	*7051*	*77.8*	*83.5*
1857	1867	3724	1931	1900	3831	*2253*	*2602*	*4855*	*2328*	*2836*	*5164*	*83.3*	*73.0*
2876	3946	6822	2956	3982	6938	*3309*	*4465*	*7774*	*3367*	*4298*	*7665*	*87.8*	*91.7*
158	128	286	166	129	295	*274*	*170*	*444*	*274*	*170*	*444*	*57.3*	*75.3*
868	849	1717	866	859	1725	*1281*	*1158*	*2439*	*1343*	*1274*	*2617*	*61.8*	*72.0*
1342	1613	2955	1365	1616	2981	*1823*	*2068*	*3891*	*1823*	*2068*	*3891*	*74.1*	*79.1*
461	1404	1865	639	1495	2134	*981*	*1940*	*2921*	*1000*	*2116*	*3116*	*63.7*	*73.6*
3405	3310	6715	3806	3536	7342	*4896*	*4712*	*9608*	*5542*	*5260*	*10802*	*75.9*	*76.7*
248	239	487	257	237	494	*477*	*370*	*847*	*538*	*435*	*973*	*54.3*	*70.3*
13364	16765	30129	14170	17220	31390	*18096*	*21543*	*39639*	*19117*	*22606*	*41723*	*77.3*	*76.4*

c. Based on 1988 production and an average March 1988 and March 1989 producing capacity. Refer to July 1988 ***Textile Organon*** for March 1988 producing capacity.

The regional totals here are the same as those on pages 160 163.

TABLE 7:
PERCENT SHARE OF WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY AREA

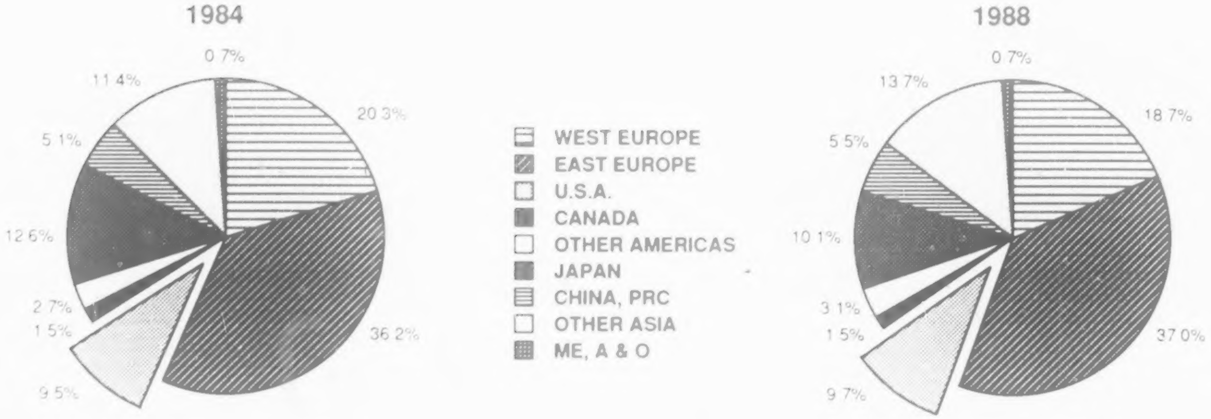
	PRODUCTION		PRODUCING CAPACITY	
AREA	1984	1988	3/1984	3/1989
WEST EUROPE	20.3	18.7	19.2	17.0
EAST EUROPE	36.2	37.0	35.2	35.8
U.S.A.	9.5	9.7	10.6	9.2
CANADA	1.5	1.5	1.5	1.5
OTHER AMERICAS	2.7	3.1	3.5	3.5
JAPAN	12.6	10.1	12.6	9.7
CHINA, PRC	5.1	5.5	6.4	8.2
OTHER ASIA	11.4	13.7	10.3	14.7
MIDDLE EAST, AFRICA & OCEANIA	0.7	0.7	0.7	0.4
TOTAL	100.0	100.0	100.0	100.0

TABLE 8:
PERCENT SHARE OF WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY AREA

	PRODUCTION		PRODUCING CAPACITY	
AREA	1984	1988	3/1984	3/1989
WEST EUROPE	20.3	18.0	20.3	17.3
EAST EUROPE	11.9	12.2	12.6	12.2
U.S.A.	24.9	22.1	25.2	19.6
CANADA	1.1	0.9	1.1	1.1
OTHER AMERICAS	5.9	5.5	6.1	6.2
JAPAN	11.6	9.5	11.3	9.8
CHINA, PRC	4.7	6.8	5.4	7.4
OTHER ASIA	18.0	23.4	16.2	24.2
MIDDLE EAST, AFRICA & OCEANIA	1.6	1.6	1.8	2.2
TOTAL	100.0	100.0	100.0	100.0

GRAPH 2:
PERCENT SHARE OF WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY AREA

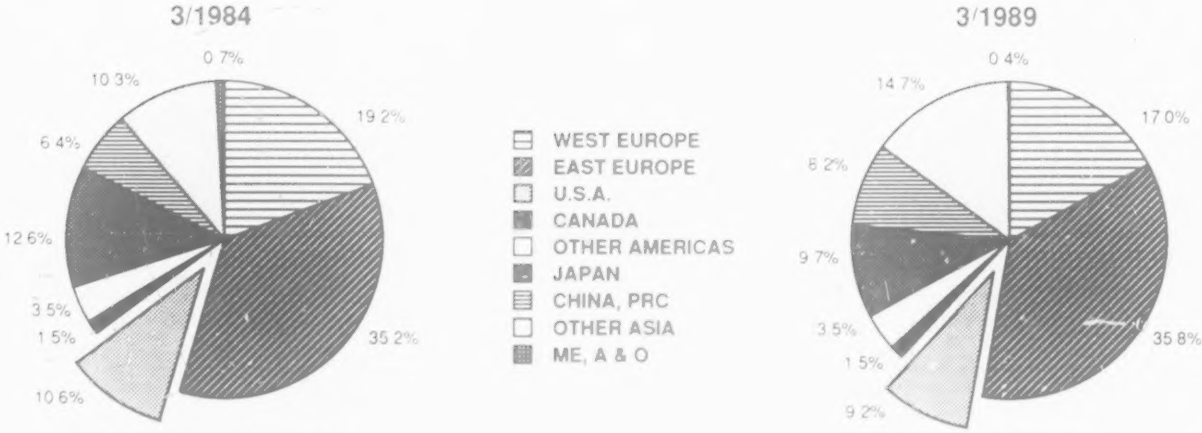
PRODUCTION



TOTAL 6,605.1 MM LBS.

TOTAL 6,361.7 MM LBS.

PRODUCING CAPACITY

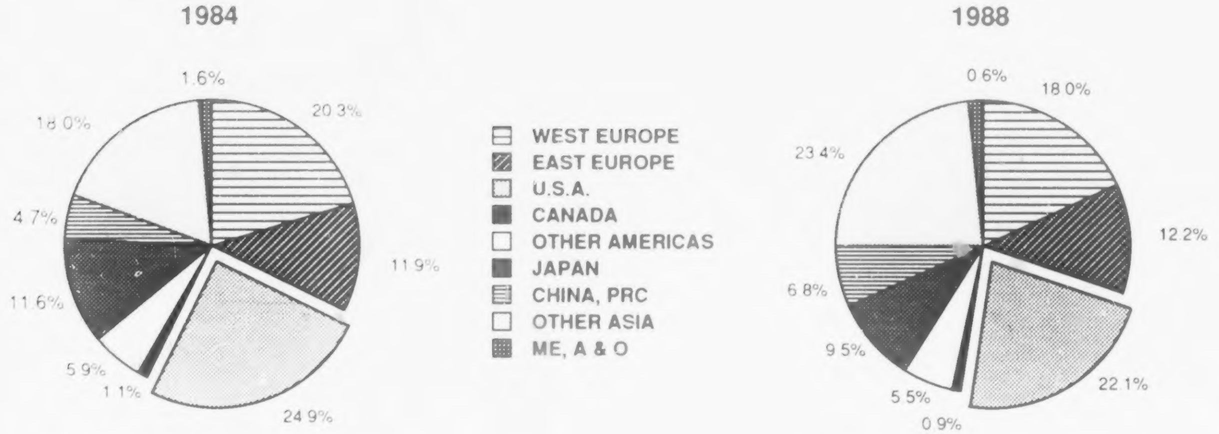


TOTAL 7,900.9 MM LBS.

TOTAL 7,821.8 MM LBS.

GRAPH 3:
PERCENT SHARE OF WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY AREA

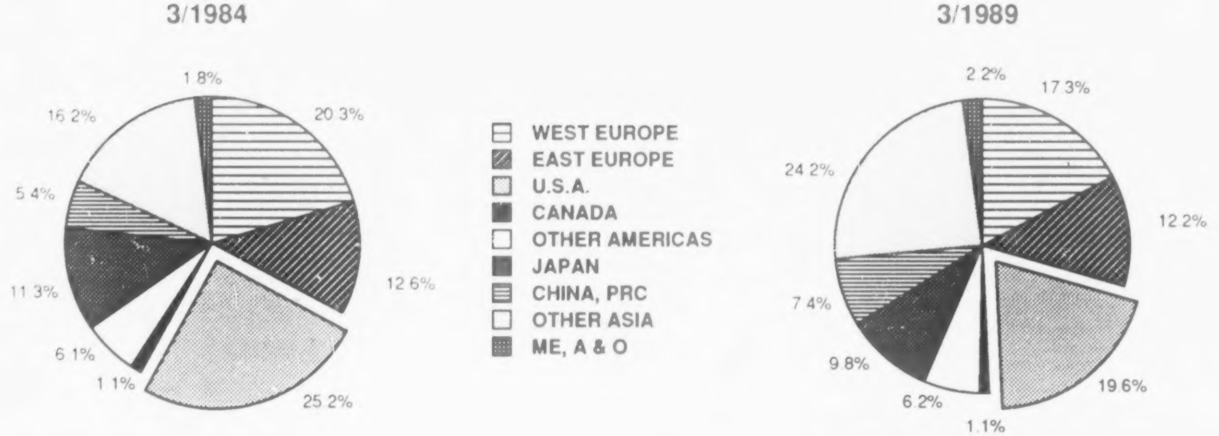
PRODUCTION



TOTAL: 26,024.6 MM LBS.

TOTAL: 31,390.1 MM LBS.

PRODUCING CAPACITY



TOTAL: 31,790.3 MM LBS.

TOTAL: 39,639.6 MM LBS.

TABLE 9:
WORLDWIDE GLASS FIBER PRODUCTION & PRODUCING CAPACITY
MILLION POUNDS

COUNTRY	PRODUCTION 1984	1985	1986	1987	1988	CAPACITY 3/89	12/90
WEST EUROPE	661	705	802	897	1025	*970*	*1102*
EAST EUROPE [a]						*220*	*243*
U S A	1394	1345	1389	1598	1609	*1777*	*1929*
OTHER AMERICAS	86	71	77	110	143	*172*	*172*
JAPAN	549	602	529	661	750	*772*	*787*
MIDDLE EAST AFRICA & OCEANIA [b]	31	62	66	77	121	*143*	*287*
TOTAL ABOVE	**2721**	**2785**	**2863**	**3343**	**3648**	***4054***	***4520***
CHINA P R C	88	110	110	121	143	*209*	*220*
U S S R	165	187	220	243	276	*408*	*441*

Glass fiber is defined on page 118 of the June issue The glass fiber producing capacity, is based on March 1989 and December 1990 annual projections

a. The data for East Europe do not include estimates for the U S S R

b. The Other Asia Africa & Oceania countries are Australia, India, Korea Rep of, South Africa and Taiwan

TABLE 10:
ESTIMATED WORLDWIDE CIGARETTE TOW PRODUCTION
MILLION POUNDS

AREA	1984	1985	1986	1987	1988
EUROPE [a]	176	183	229	236	273
U S A	412	463	476	545	549
OTHER AMERICAS [b]					
ASIA [c]	104	97	93	101	108
WORLD TOTAL	**692**	**743**	**798**	**882**	**930**

a. Belgium, Germany, Fed Rep , U S S R & United Kingdom

b. Brazil, Canada, Colombia, Mexico & Venezuela

c. Japan and Korea, Rep of

The following are additions and corrections in the **Worldwide Directory of Manufactured Fiber Producers** which appeared in our June 1989 *Fiber Organon.*

On page 124,
ECUADOR

Change the following company name:
FROM: ECUATORINA DE TEJIDOS DE PUNTA
TO: ECUATORINA DE TEJIDOS DE PUNTA - ECUAPUNTO CIA LTDA

On page 123,
COLOMBIA

Add the following company names:

QUIMICA INDUSTRIAL (formerly CELANESE COLOMBIANA, S.A.)

Acetate	Yumbo, near Cali, Valle del Cauca (yarn)
Polyester	Yumbo, (yarn & staple)

QUINTEX PLANTA DE SABANETA (formerly CELANESE COLOMBIANA, S.A.)

Nylon 6	Sabaneta, Antioquia *Nylocel* (yarn)

TABLE 11:
WORLDWIDE OLEFIN FIBER PRODUCTION
MILLION POUNDS

COUNTRY	1984	1985	1986	1987	1988
WEST EUROPE					
AUSTRIA	46	53	57	60	66
BENELUX	214	265	311	353	375
DENMARK	31	55	57	66	68
FINLAND	31	53	53	40	44
FRANCE	64	110	121	128	134
GREECE/CYPRUS	24	31	33	35	44
GERMANY, FED. REP.	201	218	229	254	276
IRELAND	20	20	20	22	22
ITALY	201	280	287	287	298
NORWAY	9	9	9	11	11
PORTUGAL	66	66	66	79	79
SPAIN	82	82	90	108	119
SWEDEN	9	13	13	13	15
SWITZERLAND	18	31	37	44	51
TURKEY	13	13	13	15	15
UNITED KINGDOM	198	209	243	276	287
TOTAL WEST EUROPE	**1227**	**1508**	**1639**	**1791**	**1904**
EAST EUROPE					
CZECHOSLOVAKIA	26	26	26	26	26
HUNGARY	35	37	44	49	55
POLAND	35	35	37	37	37
U.S.S.R.	44	49	53	53	55
U.S.A.					
YARN+MONOFIL	386	423	470	494	549
STAPLE	249	302	335	362	364
FILM FIBER	340	514	580	659	635
CANADA	99	106	121	134	137
OTHER AMERICAS					
ARGENTINA	37	33	42	53	60
BRAZIL	86	86	88	88	90
CHILE	9	11	13	15	15
EL SALVADOR GUATEMALA HONDURAS }	7	7	7	7	7
MEXICO	57	57	60	60	62
NICARAGUA	2	2	2	2	2
PERU	13	13	15	15	15
URUGUAY	4	4	4	4	4
JAPAN					
YARN+MONOFIL	31	31	24	31	35
STAPLE	71	77	82	79	84
FILM FIBER	NA	NA	NA	NA	NA
OTHER ASIA					
KOREA, REP. OF	2	2	0	0	0
PHILIPPINES	7	7	7	7	7
TAIWAN	139	157	170	172	174
MIDDLE EAST, AFRICA & OCEANIA					
AUSTRALIA	49	51	55	57	62
SOUTH AFRICA	11	11	11	11	11
OTHER	2	2	2	2	2

The olefin data shown include the "official" country data published by a government, an association or other statistical agency as well as an estimate of the olefin fiber, mainly slit and split film fiber, believed to have been produced in the country. For example, although U.S. olefin production data include yarn, monofil, staple, film fiber, and spunbonded polypropylene, published Italian and Japanese olefin data show the production of yarn+monofilaments and staple+tow but no data on production of film fiber, such as that used in sacks, fishing nets, and carpet backing. Estimates were made in the latter example.
Due to the inconsistencies in olefin production reporting, we have made no attempt to show a worldwide total.

TABLE 12:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	1989												YEAR TO DATE	
ITEMS & COUNTRY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	6	1	4								11	
BRAZIL	53	110	55	0	54								272	
CANADA	745	619	686	613	656								3319	
GERMANY FED REP OF	784	515	697	452	436								2884	
JAPAN	55	121	122	185	110								593	
MEXICO	156	99	171	45	153								624	
NETHERLANDS	61	239	261	173	204								938	
UNITED KINGDOM	75	68	113	135	75								466	
ALL OTHER COUNTRIES [a]	187	68	88	224	224								791	
TOTAL ARTIFICIAL YARN	**2116**	**1839**	**2199**	**1828**	**1916**								**9898**	**6489**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	323	422	377	226	381								1729	
CANADA	4757	1990	4093	3462	3409								17711	
GERMANY FED REP OF	68	67	95	116	124								470	
JAPAN	150	521	422	263	107								1463	
UNITED KINGDOM	265	225	1	47	69								607	
ALL OTHER COUNTRIES [b]	414	266	656	306	1330								2972	
TOTAL ARTIFICIAL STAPLE+TOW	**5977**	**3491**	**5644**	**4420**	**5420**								**24952**	**5780**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	0	56	129	171	343								699	
BRAZIL	124	137	365	107	140								873	
CANADA	3795	3098	3138	2532	3528								16091	
COSTA RICA	252	487	591	433	415								2178	
ECUADOR	91	26	144	0	58								319	
FRANCE	1180	1151	1079	1159	1159								5728	
GERMANY FED REP OF	2281	2204	2641	2516	2357								11999	
IRELAND	121	114	240	77	158								710	
ISRAEL	299	217	172	149	285								1122	
ITALY	1094	323	673	883	1031								4204	
JAPAN	893	1251	1065	966	1161								5336	
KOREA REP OF	15	49	7	81	98								250	
MEXICO	1447	2233	2385	1857	2527								10449	
NETHERLANDS	82	193	267	338	69								949	
SINGAPORE	0	25	0	33	0								58	
TAIWAN	50	175	650	1296	2844								5015	
THAILAND	65	64	69	67	63								328	
UNITED KINGDOM	1539	1357	1492	1677	1810								7875	
ALL OTHER COUNTRIES [c]	36	195	296	317	89								933	
TOTAL SYNTHETIC YARN	**13364**	**13355**	**15603**	**14659**	**18135**								**75116**	**48946**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	3	9	13	1								26	
AUSTRALIA	31	160	1	82	16								290	
BELGIUM	47	99	60	56	67								329	
BRAZIL	0	24	0	0	0								24	
CANADA	1413	737	1481	1489	1292								6412	
FRANCE	230	304	253	405	388								1580	
GERMANY FED REP OF	1985	1758	1318	1293	1491								7845	
INDIA	0	0	3772	3400	709								7881	
IRELAND	280	480	305	348	0								1413	
ITALY	482	394	206	46	61								1189	
JAPAN	1773	1757	2303	2770	2429								11032	
KOREA REP OF	2297	3387	3933	4165	5687								19469	
MEXICO	1049	372	420	1016	783								3640	
NETHERLANDS	31	103	99	81	56								370	
SWITZERLAND	146	165	134	166	125								736	
TAIWAN	262	235	215	808	917								2437	
UNITED KINGDOM	2318	2304	1643	2107	2671								11043	
ALL OTHER COUNTRIES [d]	28	29	223	95	205								580	
TOTAL SYNTHETIC STAPLE+TOW	**12372**	**12311**	**16375**	**18340**	**16898**								**76296**	**78313**

[a] Ireland 245, Korea, Rep of 144, Chile 132, Italy 77, China, PRC 51, Taiwan 44, France 43, Norway 32, Singapore 23

[b] China, PRC 1225, Taiwan 464, Germany, Dem Rep 220, Australia 217, Switzerland 179, Korea, Rep of 171, Poland 110, Romania 98, France 89, Sweden 76, Belgium 73, Italy 31, India 18, Mexico 1

[c] Portugal 304, Argentina 108, Austria 86, Turkey 69, China, PRC 57, Australia 49, Egypt 44, Switzerland 40, Spain 34, El Salvador 31, Morocco 26, Chile 22, Hong Kong 21, Peru 21, Columbia 9, Sweden 9, Greece 2, Denmark 1.

[d] Spain 290, Turkey 129, Israel 114, Germany, Dem Rep 42, Hong Kong 3, China, PRC 2.

Effective January 1,1989 the U.S. Manufactured Imports for Consumption by Country of Origin are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

Selected U.S. Manufactured Imports for Consumption by Country of Origin for 1988 are published in the ***Textile Organon***, February 1989 issue, page 31.

TABLE 13:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

ITEM	1989												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	114	266	408	205	111								1104	
TEXTURED	180	1	0	24	0								205	
OTHER	1726	1532	1671	1449	1732								8110	
MONOFILAMENTS & STRIPS	96	40	120	150	73								479	
SUBTOTAL ABOVE	**2116**	**1839**	**2199**	**1828**	**1916**								**9898**	**6489**
STAPLE	5924	3481	5624	4403	5312								24744	
TOW	47	0	0	7	103								157	
TOPS	6	10	20	10	5								51	
SUBTOTAL ABOVE	**5977**	**3491**	**5644**	**4420**	**5420**								**24952**	**5780**
WASTE	**18**	**122**	**47**	**213**	**0**								**400**	**5**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1037	1093	1506	1578	1829								7043	
TEXTURED														
UP TO 450 DENIER	385	217	359	285	319								1565	
OVER 450 DENIER	1311	1054	1428	1294	1241								6328	
OTHER	3820	3306	3786	3845	4296								19053	
MONOFILAMENTS & STRIPS	72	159	58	113	143								545	
SUBTOTAL ABOVE	**6625**	**5829**	**7137**	**7115**	**7828**								**34534**	**16458**
POLYESTER														
HIGH TENACITY	957	880	909	488	797								4031	
TEXTURED	883	1673	1738	1766	1775								7835	
POY	0	40	642	1088	2744								4514	
OTHER	1152	1481	1719	1740	1324								7416	
MONOFILAMENTS & STRIPS	65	80	34	55	24								258	
SUBTOTAL ABOVE	**3057**	**4154**	**5042**	**5137**	**6664**								**24054**	**14470**
OTHER SYNTHETIC FILAMENT														
TEXTURED	2057	1685	1552	1054	2074								8422	
OTHER	1478	1388	1564	1029	1174								6633	
MONOFILAMENTS & STRIPS	147	299	308	324	395								1473	
SUBTOTAL ABOVE	**3682**	**3372**	**3424**	**2407**	**3643**								**16528**	**18018**
STAPLE														
NYLON	1726	1896	1845	1592	1422								8481	
POLYESTER	5584	5594	10047	10627	10327								42179	
ACRYLIC	1934	1028	1576	1518	1206								7262	
POLYPROPYLENE	44	55	197	351	93								740	
OTHER	172	1040	651	740	167								2770	
TOW														
NYLON	237	433	257	504	341								1772	
POLYESTER	47	78	131	49	140								445	
ACRYLIC	2023	1709	1127	2522	2868								10249	
OTHER	117	120	146	0	0								383	
TOPS	488	358	398	437	334								2015	
SUBTOTAL ABOVE	**12372**	**12311**	**16375**	**18340**	**16898**								**76296**	**78313**
WASTE														
NYLON	1971	1804	1754	2087	1949								9565	
POLYESTER	999	340	730	1029	846								3944	
OTHER	396	725	477	486	547								2631	
TOTAL MANUFACTURED FIBERS ABOVE	**37213**	**33987**	**42829**	**43062**	**45711**								**202802**	**157918**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	229	84	46	26	74								459	
SPUN YARN	492	396	370	287	418								1963	
SPUN YARNS														
SYNTHETIC	517	686	517	258	677								2655	
ARTIFICIAL	0	0	0	0	0								0	
PUT UP FOR RETAIL SALE	71	50	27	37	74								259	
GRAND TOTAL ABOVE	**38522**	**35203**	**43789**	**43670**	**46954**								**208138**	**196806**

SOURCE: U.S. Census Bureau Report IM145X.

Effective January 1,1989 the U.S. Imports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

U.S. Monthly Imports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 32.

TABLE 14:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

	1989												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	9	13	45	26	30								123	
TEXTURED	463	17	29	1	29								539	
OTHER	694	63	18	60	21								856	
MONOFILAMENTS & STRIPS	90	0	7	93	5								195	
SUBTOTAL ABOVE	**1256**	**93**	**99**	**180**	**85**								**1713**	**5016**
STAPLE	2827	1786	1325	920	1659								8517	
TOPS	94	0	8	129	53								284	
SUBTOTAL ABOVE	**2921**	**1786**	**1333**	**1049**	**1712**								**8801**	**9717**
WASTE	**1303**	**559**	**1587**	**1116**	**1635**								**6200**	**941**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	9331	9410	7884	16614	6326								49565	
TEXTURED														
UP TO 450 DENIER	522	586	719	666	819								3312	
OVER 450 DENIER	4706	5051	5459	4430	4096								23742	
OTHER	2038	2103	2133	2188	2571								11033	
MONOFILAMENTS & STRIPS	239	258	187	131	204								1019	
SUBTOTAL ABOVE	**16836**	**17408**	**16382**	**24029**	**14016**								**88671**	**66821**
POLYESTER														
HIGH TENACITY	3031	3122	2773	3282	4214								16422	
TEXTURED	3651	3677	2385	2939	3208								15860	
POY	939	1250	2204	1446	629								6468	
OTHER	1007	584	829	983	777								4180	
MONOFILAMENTS & STRIPS	208	213	203	132	302								1058	
SUBTOTAL ABOVE	**8836**	**8846**	**8394**	**8782**	**9130**								**43988**	**35190**
OTHER SYNTHETIC FILAMENT														
TEXTURED	1033	457	872	903	992								4257	
OTHER	1342	1471	1735	1730	1559								7837	
MONOFILAMENTS & STRIPS	486	421	771	1317	927								3922	
SUBTOTAL ABOVE	**2861**	**2349**	**3378**	**3950**	**3478**								**16016**	**19838**
STAPLE														
NYLON	2605	3265	3262	2629	3280								15041	
POLYESTER	14048	10762	12940	12923	10675								61348	
ACRYLIC	3326	5674	6643	6896	6342								28881	
POLYPROPYLENE	1336	1569	1129	2264	2714								9012	
OTHER	836	2036	1489	2562	1734								8657	
TOW														
NYLON	31	50	50	108	141								380	
POLYESTER	37	564	472	634	7								1714	
ACRYLIC	1037	1761	2185	3302	1467								9752	
OTHER	161	16	34	503	9								723	
TOPS	847	964	1224	2191	3092								8318	
SUBTOTAL ABOVE	**24264**	**26661**	**29428**	**34012**	**29461**								**143826**	**173437**
WASTE														
NYLON	2127	2118	2159	2883	2102								11389	
POLYESTER	4369	3980	3189	5535	3685								20758	
OTHER	5113	6957	8080	6731	7071								33952	
TOTAL MANUFACTURED FIBERS ABOVE	**69886**	**70757**	**74029**	**88267**	**72375**								**375314**	**362541**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	13	51	43	74	9								190	
SPUN YARN	0	0	0	0	0								0	
SPUN YARNS														
SYNTHETIC	732	959	1152	1172	1127								5142	
ARTIFICIAL	0	0	0	0	0								0	
PUT UP FOR RETAIL SALE	606	740	923	580	496								3345	
GRAND TOTAL ABOVE	**71237**	**72507**	**76147**	**90093**	**74007**								**383991**	

SOURCE: U.S. Census Bureau Report EM522.

Effective January 1,1989 the U.S. Exports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

U.S. Monthly Exports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 33.

TABLE 15:
SELECTED U.S. MONTHLY FIBER DATA
MILLION POUNDS

	1989												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
	MANUFACTURED FIBER TOTAL SHIPMENTS[b c]													
ARTIFICIAL (CELLULOSIC)														
YARN	17.3	17.0	18.4	21.5	18.3	18.4							110.9	105.2
RAYON STAPLE	34.5	32.1	36.5	32.1	34.7	30.9							200.8	215.2
TOTAL ARTIFICIAL (CELLULOSIC)	**51.8**	**49.1**	**54.9**	**53.6**	**53.0**	**49.3**							**311.7**	**320.4**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	31.3	30.5	32.5	32.3	28.9	32.6							188.1	189.8
- CARPET	74.9	77.2	82.0	77.5	86.1	78.4							476.1	479.8
- TEXTILE[f]	33.9	33.2	35.0	34.6	33.8	33.4							203.9	191.3
POLYESTER - INDUSTRIAL[d]	28.6	29.7	30.9	32.2	30.4	31.5							183.3	179.4
- TEXTILE[f]	73.2	71.2	74.4	78.2	76.3	66.0							439.3	415.8
OLEFIN[e]	103.2	102.2	101.5	97.7	101.7	100.7							607.0	609.5
TOTAL YARN	**345.1**	**344.0**	**356.3**	**352.5**	**357.2**	**342.6**							**2097.7**	**2065.6**
STAPLE+TOW+FIBERFILL														
NYLON	82.3	78.4	88.8	76.4	81.3	78.3							485.5	471.8
ACRYLIC+MODACRYLIC	41.7	46.2	48.6	49.2	51.7	44.4							281.8	295.1
POLYESTER	205.8	192.1	212.4	214.3	206.8	193.6							1225.0	1189.8
OLEFIN	31.0	31.6	32.0	31.4	31.2	32.1							189.3	212.8
TOTAL STAPLE	**360.8**	**348.3**	**381.8**	**371.3**	**371.0**	**348.4**							**2181.6**	**2169.5**
TOTAL SYNTHETIC (NONCELLULOSIC)	**705.9**	**692.3**	**738.1**	**723.8**	**728.2**	**691.0**							**4279.3**	**4235.1**
TOTAL MANUFACTURED FIBER	**757.7**	**741.4**	**793.0**	**777.4**	**781.2**	**740.3**							**4591.0**	**4555.5**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	11.7	10.9	11.3	10.4	9.7	14.7							14.7	12.4
RAYON STAPLE	13.0	13.2	11.7	12.5	13.4	8.9							8.9	13.4
TOTAL ARTIFICIAL (CELLULOSIC)	**24.7**	**24.1**	**23.0**	**22.9**	**23.1**	**23.6**							**23.6**	**25.8**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.4	24.7	22.4	22.9	24.2	24.5							24.5	24.6
- CARPET	63.5	63.2	62.8	68.7	64.0	66.8							66.8	71.9
- TEXTILE[f]	47.1	48.3	46.4	47.0	47.4	49.0							49.0	50.3
POLYESTER - INDUSTRIAL[d]	35.0	31.4	30.6	31.6	30.9	33.8							33.8	29.2
- TEXTILE[f]	73.5	76.9	81.8	85.1	85.0	87.2							87.2	82.9
OLEFIN[e]	53.1	53.8	55.2	55.3	55.0	56.1							56.1	54.0
TOTAL YARN	**296.6**	**298.3**	**299.2**	**310.6**	**306.5**	**317.4**							**317.4**	**312.9**
STAPLE+TOW+FIBERFILL														
NYLON	51.8	52.9	50.9	57.5	57.5	57.0							57.0	65.3
ACRYLIC+MODACRYLIC	70.5	68.3	69.0	67.3	65.2	69.7							69.7	68.0
POLYESTER	163.5	163.8	158.5	164.4	176.2	190.9							190.9	173.7
OLEFIN	31.0	31.3	32.8	34.3	35.2	33.3							33.3	36.1
TOTAL STAPLE	**316.8**	**316.3**	**311.2**	**323.5**	**334.1**	**350.9**							**350.9**	**343.1**
TOTAL SYNTHETIC (NONCELLULOSIC)	**613.4**	**614.6**	**610.4**	**634.1**	**640.6**	**668.3**							**668.3**	**656.0**
TOTAL MANUFACTURED FIBER	**638.1**	**638.7**	**633.4**	**657.0**	**663.7**	**691.9**							**691.9**	**681.8**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	12.1	12.8	14.1	12.0									51.0	50.0
CARPET CLASS WOOL	0.8	1.4	1.5	1.6									5.3	5.9
TOTAL RAW WOOL	**12.9**	**14.2**	**15.6**	**13.6**									**56.3**	**55.9**
RAW COTTON	289.5	301.0	339.2	305.7									1235.4	1228.7

---

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

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FIBER ORGANON

Formerly Textile Organon

Volume 60, No.8 ☐ August 1989

A puplication of *Fiber Economics Bureau*, Inc.

Highlights

- 1984 - 1988 Summary of U.S. Imports and Exports of Manufactures...begins on page 183.
- U.S. Production of Hosiery...see page 187.
- Quarterly Manufactured Fiber Data...see pages 194 - 195.

SHIPMENTS:

In July, total manufactured fiber shipments reached 702 million pounds, 6% below the 744 million pounds shipped in June and slightly below the 705 million pounds shipped in July 1988.

July shipments of synthetic (noncellulosic) filament yarn fell 3% to 336 million pounds and staple+tow fell 8% to 323 million pounds.

Contributing to the decrease in shipments over the previous month were olefin staple+tow down 17% or 6 million pounds and nylon industrial yarn down 4 million pounds or 11%.

Year-to-date domestic shipments of manufactured fiber are up 3% and exports are down 12%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1989 JUL	1989 JUN	% CHG 7/89-6/89	1988 JUL	% CH 7/89-7/88	YEAR TO DATE 1989	YEAR TO DATE 1988	% CHG YTD 1989-1988
ARTIFICIAL (CELLULOSIC)								
YARN	18.9	18.4	*+2.7*	19.1	*1.0*	129.9	124.4	*+4.4*
RAYON STAPLE	24.8	30.9	*19.7*	29.1	*14.8*	225.0	244.2	*7.9*
TOTAL ARTIFICIAL (CELL.)	**43.7**	**49.3**	***-11.4***	**48.2**	***-9.3***	**354.9**	**368.6**	***-3.7***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON INDUSTRIAL	29.0	32.7	*11.3*	32.4	*10.5*	217.3	222.2	*2.2*
CARPET	73.4	78.5	*6.5*	73.7	*0.4*	549.6	553.5	*0.7*
TEXTILE [a]	31.8	34.2	*7.0*	27.7	*+14.8*	236.5	219.0	*+8.0*
POLYESTER INDUSTRIAL	30.7	32.8	*6.4*	29.3	*+4.8*	215.3	208.8	*+3.1*
TEXTILE [a]	73.2	66.1	*+10.7*	70.2	*+4.3*	513.3	485.9	*+5.6*
OLEFIN	97.6	101.0	*3.4*	89.0	*+9.7*	723.7	698.4	*+3.6*
TOTAL YARN	**335.7**	**345.3**	***-2.8***	**322.3**	***+4.2***	**2455.7**	**2387.8**	***+2.8***
STAPLE+TOW+FIBERFILL								
NYLON	74.9	78.3	*4.3*	75.0	*0.1*	560.4	546.9	*+2.5*
ACRYLIC+MODACRYLIC	41.1	44.0	*6.6*	42.1	*2.4*	322.5	337.2	*4.4*
POLYESTER	179.1	193.9	*7.6*	190.9	*6.2*	1405.7	1380.6	*+1.8*
OLEFIN	27.8	33.5	*17.0*	26.9	*+3.3*	219.7	209.7	*+4.8*
TOTAL STAPLE	**322.9**	**349.7**	***-7.7***	**334.9**	***-3.6***	**2508.3**	**2474.4**	***+1.4***
TOTAL SYNTHETIC (NONCELL.)	**658.6**	**695.0**	***-5.2***	**657.2**	***+0.2***	**4964.0**	**4862.2**	***+2.1***
TOTAL MANUFACTURED FIBER	**702.3**	**744.3**	***-5.6***	**705.4**	***-0.4***	**5318.9**	**5230.8**	***+1.7***
TOTAL SHIPMENTS DIVIDED AS								
DOMESTIC SHIPMENTS [b]	663.5	704.2	*5.8*	652.1	*+1.7*	5020.9	4891.1	*+2.7*
EXPORTS [c]	38.8	40.1	*3.2*	53.3	*27.2*	298.0	339.7	*12.3*

a Includes low denier industrial yarn

b Includes olefin exports

c Excludes olefin exports

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TABLE 2:

RAW FIBER EQUIVALENT OF IMPORTS & EXPORTS OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

COMMODITY	MANUFACTURED FIBER							COTTON							WOOL						
	ANNUAL AVERAGE							ANNUAL AVERAGE							ANNUAL AVERAGE						
	1974 - 1978	1979 - 1983	1984	1985	1986	1987	1988	1974 - 1978	1979 - 1983	1984	1985	1986	1987	1988	1974 - 1978	1979 - 1983	1984	1985	1986	1987	1988
IMPORTS																					
SEMIMANUFACTURED PRODUCTS																					
YARN, THREAD, ETC[a]	29.4	39.8	71.0	74.7	96.3	91.9	67.5	19.1	25.3	54.6	56.3	105.9	134.5	95.5	5.8	5.7	16.3	14.1	13.7	14.6	13.1
CLOTH[b]	86.5	102.5	170.4	129.1	245.0	211.7	205.6	272.7	291.6	450.8	421.2	532.9	649.9	466.4	14.8	24.9	39.0	36.4	25.9	29.5	29.9
SUBTOTAL	**115.9**	**142.3**	**241.4**	**203.8**	**341.3**	**303.6**	**273.1**	**291.8**	**316.9**	**505.4**	**477.5**	**638.8**	**784.4**	**561.9**	**20.6**	**30.6**	**55.3**	**50.5**	**39.6**	**44.1**	**43.0**
MANUFACTURED PRODUCTS																					
WEARING APPAREL[c]	335.6	447.6	688.9	798.1	929.4	1033.6	991.6	292.6	505.5	759.5	895.5	1016.0	1265.6	1254.4	33.8	45.4	80.8	137.0	155.6	158.9	144.3
INDUSTRIAL[d]	2.0	0.2	0.4	0.9	2.7	5.6	11.5	6.0	9.8	37.6	32.4	46.4	53.2	51.5	NOMINAL QUANTITIES INCLUDED IN ALL OTHER						
HOME FURNISHINGS[e] }	31.4	68.2	411.3	394.2	429.2	462.6	459.5	38.8	58.9	138.9	169.7	182.9	205.2	218.7	13.8	20.9	52.1	60.8	62.9	53.1	41.2
ALL OTHER[f]								16.3	16.3	23.4	38.6	26.4	27.3	32.1	1.1	1.3	1.2	0.6	2.4	2.2	2.0
SUBTOTAL	**369.0**	**516.0**	**1100.6**	**1193.2**	**1361.3**	**1501.8**	**1462.6**	**353.7**	**590.5**	**959.4**	**1136.2**	**1271.7**	**1551.3**	**1556.7**	**48.7**	**67.6**	**134.1**	**198.4**	**220.9**	**214.2**	**187.5**
TOTAL IMPORTS	**484.9**	**658.3**	**1342.0**	**1397.0**	**1702.6**	**1805.4**	**1735.7**	**645.5**	**907.4**	**1464.8**	**1613.7**	**1910.5**	**2335.7**	**2118.6**	**69.3**	**98.2**	**189.4**	**248.9**	**260.5**	**258.3**	**230.5**
EXPORTS																					
SEMIMANUFACTURED PRODUCTS																					
YARN, THREAD, ETC[a]	37.9	49.4	38.5	50.9	47.9	53.9	66.6	21.7	36.1	20.0	25.8	16.6	19.6	27.2	7.4	4.3	2.7	9.3	6.3	12.7	16.5
CLOTH[b]	169.5	227.1	152.6	158.6	184.2	209.9	246.1	217.7	150.2	64.5	82.2	126.4	107.3	96.7	1.1	1.5	1.4	1.6	2.3	2.2	2.1
SUBTOTAL	**207.4**	**276.5**	**191.1**	**209.5**	**232.1**	**263.8**	**312.7**	**239.4**	**186.3**	**84.5**	**108.0**	**143.0**	**126.9**	**123.9**	**8.5**	**5.8**	**4.1**	**10.9**	**8.6**	**14.9**	**18.6**
MANUFACTURED PRODUCTS																					
WEARING APPAREL	37.6	90.9	79.4	65.2	74.9	82.5	88.1	52.8	109.3	68.2	55.4	73.9	108.4	123.1	3.1	6.2	2.7	3.9	3.8	4.2	6.1
INDUSTRIAL[d]	33.8	60.3	31.3	30.2	46.3	53.8	46.3	22.8	17.6	14.4	16.5	21.0	21.7	27.4	NOMINAL QUANTITIES INCLUDED IN ALL OTHER						
HOME FURNISHINGS[e]	49.1	67.6	102.9	81.9	86.8	101.0	138.2	36.4	36.8	36.9	30.4	36.4	40.1	54.6	2.3	2.1	6.5	3.3	0.2	0.2	0.3
ALL OTHER[g]	47.1	85.6	83.3	73.5	79.1	90.8	99.3	25.5	18.2	0.6	0.4	0.6	0.9	1.2	1.9	1.8	1.8	1.2	1.6	2.0	2.8
SUBTOTAL	**167.6**	**304.4**	**296.9**	**250.8**	**287.1**	**328.1**	**371.9**	**137.5**	**181.9**	**120.1**	**102.7**	**131.9**	**171.1**	**206.3**	**7.3**	**10.1**	**11.0**	**8.4**	**5.6**	**6.4**	**9.2**
TOTAL EXPORTS	**375.0**	**580.9**	**488.0**	**460.3**	**519.2**	**591.9**	**684.6**	**376.9**	**368.2**	**204.6**	**210.7**	**274.9**	**298.0**	**330.2**	**15.8**	**15.9**	**15.1**	**19.4**	**14.2**	**21.3**	**27.8**
NET EXPORTS (+) OR NET IMPORTS (-)	**-109.9**	**-77.4**	**-854.0**	**-936.7**	**-1183.4**	**-1213.5**	**-1051.1**	**-268.6**	**-539.2**	**-1260.2**	**-1403.0**	**-1635.6**	**-2037.7**	**-1788.4**	**-53.5**	**-82.3**	**-174.3**	**-229.5**	**-246.3**	**-237.0**	**-202.7**

SOURCE: U.S. Department of Agriculture, *Cotton and Wool Outlook & Situation.*

a. Includes sliver, tops, roving, plied (textured and other), thrown and spun yarn, sewing thread and handwork yarns. Manufactured fiber yarn singles (textured and other) are not included here, rather they are included in Column 13 page 52 of the March 1989 ***Textile Organon.***

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980-1988 only, the corresponding quantities for each year are, respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1 & 73.4

b. Includes broad & narrow woven fabrics and knit cloth, except that cotton narrow fabrics and wool knit fabrics are included in All Other

c. Includes lace & lace articles, veils & veilings and nets & nettings

d. The manufactured fiber data are tire cord & tire cord fabric

e. Includes carpets & rugs. Lace window curtains are in All Other

f. Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc. Wool includes knit fabric in the piece, but not lace & lace articles, which are in Wearing Apparel. For 1983-1986, manufactured fiber and cotton include imports of soft-sided luggage. For those years the quantities were respectively, 180.5, 228.0, 157.4 and 169.3 for manufactured fiber and 14.1, 18.7, 8.2 & 30.1 for cotton

g. Includes such products as lace & lace articles, polishing & dustcloths, braids, tassels, etc. Cotton also includes narrow fabric and wool includes knit fabrics

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption

TABLE 3:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER MANUFACTURES
MILLION POUNDS

COMMODITY	1988 REVISED												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC [a]	6.6	5.3	5.2	5.2	5.9	6.0	6.3	5.3	5.2	5.4	5.6	5.5	67.5	91.9
CLOTH [b]	17.0	14.1	16.7	19.1	18.8	20.0	18.1	18.6	14.6	17.9	15.6	15.1	205.6	211.7
SUBTOTAL	**23.6**	**19.4**	**21.9**	**24.3**	**24.7**	**26.0**	**24.4**	**23.9**	**19.8**	**23.3**	**21.2**	**20.6**	**273.1**	**303.6**
MANUFACTURED PRODUCTS														
WEARING APPAREL	82.4	76.1	64.7	63.4	83.3	103.3	104.9	107.0	87.3	81.9	71.6	65.7	991.6	1033.6
INDUSTRIAL [c]	1.0	1.1	1.1	1.1	1.0	0.8	0.7	0.9	0.9	1.1	1.2	0.6	11.5	5.6
HOME FURNISHINGS [d] ALL OTHER [e] }	34.9	38.5	37.8	34.6	39.8	41.3	39.8	42.5	38.0	37.9	38.0	36.4	459.5	462.6
SUBTOTAL	**118.3**	**115.7**	**103.6**	**99.1**	**124.1**	**145.4**	**145.4**	**150.4**	**126.2**	**120.9**	**110.8**	**102.7**	**1462.6**	**1501.8**
TOTAL IMPORTS	**141.9**	**135.1**	**125.5**	**123.4**	**148.8**	**171.4**	**169.8**	**174.3**	**146.0**	**144.2**	**132.0**	**123.3**	**1735.7**	**1805.4**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC [a]	4.5	5.0	6.3	5.1	4.8	5.9	5.4	5.9	5.6	4.8	5.6	7.7	66.6	53.9
CLOTH [b]	17.5	18.0	23.4	21.2	21.5	19.4	18.3	21.2	21.0	20.6	21.6	22.4	246.1	209.9
SUBTOTAL	**22.0**	**23.0**	**29.7**	**26.3**	**26.3**	**25.3**	**23.7**	**27.1**	**26.6**	**25.4**	**27.2**	**30.1**	**312.7**	**263.8**
MANUFACTURED PRODUCTS														
WEARING APPAREL	6.3	6.8	8.3	7.6	7.8	7.0	7.0	7.3	7.5	7.3	7.8	7.4	88.1	82.5
INDUSTRIAL [c]	3.1	5.2	5.0	4.3	3.8	4.2	3.2	3.6	3.5	3.2	3.2	4.0	46.3	53.8
HOME FURNISHINGS [d]	7.8	9.3	13.1	12.8	14.0	12.1	10.7	11.1	14.2	11.8	10.8	10.5	138.2	101.0
ALL OTHER [e]	6.8	8.5	8.7	8.8	9.5	8.1	7.5	8.5	8.0	9.1	7.8	8.0	99.3	90.8
SUBTOTAL	**24.0**	**29.8**	**35.1**	**33.5**	**35.1**	**31.4**	**28.4**	**30.5**	**33.2**	**31.4**	**29.6**	**29.9**	**371.9**	**328.1**
TOTAL EXPORTS	**46.0**	**52.8**	**64.8**	**59.8**	**61.4**	**56.7**	**52.1**	**57.6**	**59.8**	**56.8**	**56.8**	**60.0**	**684.6**	**591.9**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC [a]	2.1 I	0.3 I	1.1 E	0.1 I	1.1 I	0.1 I	0.9 I	0.6 E	0.4 E	0.6 I	0	2.2 E	0.9 I	38.0 I
CLOTH [b]	0.5 E	3.9 E	6.7 E	2.1 E	2.7 E	0.6 I	0.2 E	2.6 E	6.4 E	2.7 E	6.0 E	7.3 E	40.5 E	1.8 I
SUBTOTAL	**1.6 I**	**3.6 E**	**7.8 E**	**2.0 E**	**1.6 E**	**0.7 I**	**0.7 I**	**3.2 E**	**6.8 E**	**2.1 E**	**6.0 E**	**9.5 E**	**39.6 E**	**39.8 I**
MANUFACTURED PRODUCTS														
WEARING APPAREL	76.1 I	69.3 I	56.4 I	55.8 I	75.5 I	96.3 I	97.9 I	99.7 I	79.8 I	74.6 I	63.8 I	58.3 I	903.5 I	951.1 I
INDUSTRIAL [c]	2.1 E	4.1 E	3.9 E	3.2 E	2.5 E	3.4 E	2.5 E	2.7 E	2.6 E	2.1 E	2.0 E	3.4 E	34.8 E	48.2 E
HOME FURNISHINGS [d] ALL OTHER [f] }	20.3 I	20.7 I	16.0 I	13.0 I	16.3 I	21.1 I	21.6 I	22.9 I	15.8 I	17.0 I	19.4 I	17.9 I	222.0 I	270.8 I
SUBTOTAL	**94.3 I**	**85.9 I**	**68.5 I**	**65.6 I**	**88.0 I**	**114.0 I**	**117.0 I**	**119.9 I**	**93.0 I**	**89.5 I**	**81.2 I**	**72.8 I**	**1090.7 I**	**1173.7 I**
TOTAL BALANCE	**95.9 I**	**82.3 I**	**60.7 I**	**63.6 I**	**87.4 I**	**114.7 I**	**117.7 I**	**116.7 I**	**86.2 I**	**87.4 I**	**75.2 I**	**63.3 I**	**1051.1 I**	**1213.5 I**

SOURCE: U.S. Department of Agriculture, *Cotton and Wool Outlook & Situation*

a. Includes sliver, tops, roving, plied (textured and other), thrown and spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here, rather they are included in Column 13 page 52 of the March 1989 ***Textile Organon.***

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980-1988 only, the corresponding quantities for each year are, respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1 & 73.4

b. Includes broad & narrow woven fabrics and knit cloth

c. The manufactured fiber data are tire cord & tire cord fabric

d. Includes carpets & rugs. Lace window curtains are in All Other

e. Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc.

f. Includes such products as lace & lace articles, polishing & dustcloths, braids, tassels, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

TABLE 4:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF COTTON MANUFACTURES
MILLION POUNDS

COMMODITY	1988 REVISED												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC [a]	11.0	8.6	8.9	7.2	8.1	6.4	6.3	7.5	7.6	7.1	8.0	8.8	95.5	134.5
CLOTH [b]	37.9	41.5	43.6	40.9	36.1	36.7	35.8	37.1	35.0	38.4	38.3	45.1	466.4	649.9
SUBTOTAL	**48.9**	**50.1**	**52.5**	**48.1**	**44.2**	**43.1**	**42.1**	**44.6**	**42.6**	**45.5**	**46.3**	**53.9**	**561.9**	**784.4**
MANUFACTURED PRODUCTS														
WEARING APPAREL	124.8	116.6	96.7	81.7	92.7	118.9	116.3	113.6	96.7	101.2	99.2	96.0	1254.4	1265.6
INDUSTRIAL	5.7	5.8	4.8	3.9	3.8	4.5	3.1	4.1	2.9	3.8	4.2	4.9	51.5	53.2
HOME FURNISHINGS [c]	19.2	20.1	19.9	17.9	17.5	17.9	17.1	21.6	16.7	16.9	17.1	16.8	218.7	205.2
ALL OTHER [d]	2.7	2.4	2.9	2.6	2.8	2.8	2.6	3.2	2.4	2.5	2.8	2.4	32.1	27.3
SUBTOTAL	**152.4**	**144.9**	**124.3**	**106.1**	**116.8**	**144.1**	**139.1**	**142.5**	**118.7**	**124.4**	**123.3**	**120.1**	**1556.7**	**1551.3**
TOTAL IMPORTS	**201.3**	**195.0**	**176.8**	**154.2**	**161.0**	**187.2**	**181.2**	**187.1**	**161.3**	**169.9**	**169.6**	**174.0**	**2118.6**	**2335.7**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC [a]	1.1	1.8	2.8	2.1	1.7	2.1	2.2	2.6	3.4	2.6	2.4	2.4	27.2	19.6
CLOTH [b]	7.9	7.0	9.0	7.9	8.1	8.1	6.1	7.0	9.0	7.5	8.9	10.2	96.7	107.3
SUBTOTAL	**9.0**	**8.8**	**11.8**	**10.0**	**9.8**	**10.2**	**8.3**	**9.6**	**12.4**	**10.1**	**11.3**	**12.6**	**123.9**	**126.9**
MANUFACTURED PRODUCTS														
WEARING APPAREL	8.7	9.5	12.0	10.7	10.4	9.2	9.3	10.1	10.8	10.7	10.5	11.2	123.1	108.4
INDUSTRIAL	1.7	1.9	2.4	2.3	2.4	2.5	2.0	2.2	2.5	2.4	2.6	2.5	27.4	21.7
HOME FURNISHINGS [c]	3.2	3.6	4.4	4.3	4.2	4.9	4.0	4.3	6.1	5.4	4.6	5.6	54.6	40.1
ALL OTHER [d]	0.1	+	0.1	0.2	0.2	0.1	+	0.1	0.1	0.1	0.1	0.1	1.2	0.9
SUBTOTAL	**13.7**	**15.0**	**18.9**	**17.5**	**17.2**	**16.7**	**15.3**	**16.7**	**19.5**	**18.6**	**17.8**	**19.4**	**206.3**	**171.1**
TOTAL EXPORTS	**22.7**	**23.8**	**30.7**	**27.5**	**27.0**	**26.9**	**23.6**	**26.3**	**31.9**	**28.7**	**29.1**	**32.0**	**330.2**	**298.0**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC	9.9 I	6.8 I	6.1 I	5.1 I	6.4 I	4.3 I	4.1 I	4.9 I	4.2 I	4.5 I	5.6 I	6.4 I	68.3 I	114.9 I
CLOTH	30.0 I	34.5 I	34.6 I	33.0 I	28.0 I	28.6 I	29.7 I	30.1 I	26.0 I	30.9 I	29.4 I	34.9 I	369.7 I	542.6 I
SUBTOTAL	**39.9 I**	**41.3 I**	**40.7 I**	**38.1 I**	**34.4 I**	**32.9 I**	**33.8 I**	**35.0 I**	**30.2 I**	**35.4 I**	**35.0 I**	**41.3 I**	**438.0 I**	**657.5 I**
MANUFACTURED PRODUCTS														
WEARING APPAREL	116.1 I	107.1 I	84.7 I	71.0 I	82.3 I	109.7 I	107.0 I	103.5 I	85.9 I	90.5 I	88.7 I	84.8 I	1131.3 I	1157.2 I
INDUSTRIAL	4.0 I	3.9 I	2.4 I	1.6 I	1.4 I	2.0 I	1.1 I	1.9 I	0.4 I	1.4 I	1.6 I	2.4 I	24.1 I	31.5 I
HOME FURNISHINGS	16.0 I	16.5 I	15.5 I	13.6 I	13.3 I	13.0 I	13.1 I	17.3 I	10.6 I	11.5 I	12.5 I	11.2 I	164.1 I	165.1 I
ALL OTHER	2.6 I	2.4 I	2.8 I	2.4 I	2.6 I	2.7 I	2.6 I	3.1 I	2.3 I	2.4 I	2.7 I	2.3 I	30.9 I	26.4 I
SUBTOTAL	**138.7 I**	**129.9 I**	**105.4 I**	**88.6 I**	**99.6 I**	**127.4 I**	**123.8 I**	**125.8 I**	**99.2 I**	**105.8 I**	**105.5 I**	**100.7 I**	**1350.4 I**	**1380.2 I**
TOTAL BALANCE	**178.6 I**	**171.2 I**	**146.1 I**	**126.7 I**	**134.0 I**	**160.3 I**	**157.6 I**	**160.8 I**	**129.4 I**	**141.2 I**	**140.5 I**	**142.0 I**	**1788.4 I**	**2037.7 I**

SOURCE: U.S. Department of Agriculture, *Cotton and Wool Outlook & Situation*.

a. Includes sliver, tops, roving, plied (textured and other), spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here.

b. Includes broad & narrow woven fabrics and knit cloth. Cotton narrow fabrics are included in All Other.

c. Includes carpets and rugs, bed sheets, towels, tablecloths, etc. Lace window curtains are in All Other.

d. Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

TABLE 5:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF WOOL MANUFACTURES
MILLION POUNDS

	1988 REVISED												YEAR TO DATE	
COMMODITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC [a]	0.9	0.9	1.3	1.1	1.3	1.3	1.1	1.2	0.7	1.3	1.0	1.0	13.1	14.6
CLOTH [b]	2.0	2.2	3.6	3.3	3.1	3.2	2.9	2.3	1.6	1.9	1.8	2.0	29.9	29.5
SUBTOTAL	**2.9**	**3.1**	**4.9**	**4.4**	**4.4**	**4.5**	**4.0**	**3.5**	**2.3**	**3.2**	**2.8**	**3.0**	**43.0**	**44.1**
MANUFACTURED PRODUCTS														
WEARING APPAREL [c]	7.5	6.6	5.6	6.7	11.2	16.7	19.8	22.7	17.4	14.5	9.4	6.2	144.3	158.9
INDUSTRIAL	NOMINAL QUANTITIES INCLUDED IN ALL OTHER													
HOME FURNISHINGS [d]	4.0	3.5	4.0	3.6	3.4	3.7	3.0	3.2	2.7	3.4	3.4	3.3	41.2	53.1
ALL OTHER [e]	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	2.0	2.2
SUBTOTAL	**11.7**	**10.3**	**9.8**	**10.5**	**14.8**	**20.6**	**23.0**	**26.0**	**20.2**	**18.0**	**12.9**	**9.7**	**187.5**	**214.2**
TOTAL IMPORTS	**14.6**	**13.4**	**14.7**	**14.9**	**19.2**	**25.1**	**27.0**	**29.5**	**22.5**	**21.2**	**15.7**	**12.7**	**230.5**	**258.3**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC [a]	0.8	0.8	1.2	0.9	1.0	1.6	1.8	1.2	1.7	1.3	2.5	1.7	16.5	12.7
CLOTH [b]	0.1	0.2	0.2	0.2	0.3	0.1	0.1	0.2	0.2	0.2	0.2	0.1	2.1	2.2
SUBTOTAL	**0.9**	**1.0**	**1.4**	**1.1**	**1.3**	**1.7**	**1.9**	**1.4**	**1.9**	**1.5**	**2.7**	**1.8**	**18.6**	**14.9**
MANUFACTURED PRODUCTS														
WEARING APPAREL	0.8	0.5	0.7	0.5	0.5	0.5	0.4	0.5	0.7	0.4	0.4	0.2	6.1	4.2
INDUSTRIAL	NOMINAL QUANTITIES INCLUDED IN ALL OTHER													
HOME FURNISHINGS [d]	+	+	+	+	+	+	+	0.1	+	0.1	0.1	+	0.3	0.2
ALL OTHER [f]	0.1	0.2	0.3	0.2	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.2	2.8	2.0
SUBTOTAL	**0.9**	**0.7**	**1.0**	**0.7**	**0.7**	**0.9**	**0.6**	**0.8**	**1.1**	**0.7**	**0.7**	**0.4**	**9.2**	**6.4**
TOTAL EXPORTS	**1.8**	**1.7**	**2.4**	**1.8**	**2.0**	**2.6**	**2.5**	**2.2**	**3.0**	**2.2**	**3.4**	**2.2**	**27.8**	**21.3**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC	0.1 I	0.1 I	0.1 I	0.2 I	0.3 I	0.3 E	0.7 E	0	1.0 E	0	1.5 E	0.7 E	3.4 E	1.9 I
CLOTH	1.9 I	2.0 I	3.4 I	3.1 I	2.8 I	3.1 I	2.8 I	2.1 I	1.4 I	1.7 I	1.6 I	1.9 I	27.8 I	27.3 I
SUBTOTAL	**2.0 I**	**2.1 I**	**3.5 I**	**3.3 I**	**3.1 I**	**2.8 I**	**2.1 I**	**2.1 I**	**0.4 I**	**1.7 I**	**0.1 I**	**1.2 I**	**24.4 I**	**29.2 I**
MANUFACTURED PRODUCTS														
WEARING APPAREL	6.7 I	6.1 I	4.9 I	6.2 I	10.7 I	16.2 I	19.4 I	22.2 I	16.7 I	14.1 I	9.0 I	6.0 I	138.2 I	154.7 I
INDUSTRIAL	NOMINAL QUANTITIES INCLUDED IN ALL OTHER													
HOME FURNISHINGS	4.0 I	3.5 I	4.0 I	3.6 I	3.4 I	3.7 I	3.0 I	3.1 I	2.7 I	3.3 I	3.3 I	3.3 I	40.9 I	52.9 I
ALL OTHER	0.1 I	0	0.1 E	0	0	0.2 E	0	0.1 E	0.3 E	0.1 E	0.1 E	0	0.8 E	0.2 I
SUBTOTAL	**10.8 I**	**9.6 I**	**8.8 I**	**9.8 I**	**14.1 I**	**19.7 I**	**22.4 I**	**25.2 I**	**19.1 I**	**17.3 I**	**12.2 I**	**9.3 I**	**178.3 I**	**207.8 I**
TOTAL BALANCE	**12.8 I**	**11.7 I**	**12.3 I**	**13.1 I**	**17.2 I**	**22.5 I**	**24.5 I**	**27.3 I**	**19.5 I**	**19.0 I**	**12.3 I**	**10.5 I**	**202.7 I**	**237.0 I**

SOURCE: U.S. Department of Agriculture, *Cotton and Wool Outlook & Situation*

a. Includes sliver, tops, roving, plied (textured and other), spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here.

b. Includes broad & narrow woven fabrics. Wool knit fabrics are included in All Other.

c. Includes lace & lace articles, veils & veilings and nets & nettings.

d. Includes carpets and rugs.

e. Includes knit fabric in the piece, but not lace & lace articles which are in Wearing Apparel.

f. Includes such products as braids, tassels, felts and knit fabrics.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

TABLE 6:
U.S. PRODUCTION OF HOSIERY, 1979 -1988
MILLION DOZEN PAIRS

ITEM	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
WOMEN'S										
PANTYHOSE - SHEER	55.3	57.3	59.6	58.5	64.0	67.1	57.9	57.3	53.7	51.9
- ELASTOMER	33.2	36.7	39.0	43.2	47.6	39.4	49.0	52.0	56.0	64.7
- OTHER[a]	2.4	2.0	2.4	3.4	5.0	7.4	7.3	8.8	10.2	8.6
SUBTOTAL PANTYHOSE	**90.9**	**96.0**	**101.0**	**105.1**	**116.6**	**113.9**	**114.2**	**118.1**	**119.9**	**125.2**
STOCKINGS - NONSTRETCH	2.4	2.0	1.8	1.5	1.5	1.3	1.2	1.3	1.6	1.2
- STRETCH	2.7	2.4	2.1	2.4	2.7	2.5	2.2	1.8	2.2	2.2
- SUPPORT	0.7	0.7	0.6	0.5	0.6	0.4	0.4	0.3	0.4	0.3
- OTHER	0.2	0.1	0.1	0.1	*	*	0.1	0.1	*	0.1
SUBTOTAL STOCKINGS	**6.0**	**5.2**	**4.6**	**4.5**	**4.8**	**4.2**	**3.9**	**3.5**	**4.2**	**3.8**
SHEER KNEE-HIGHS & ANKLETS	44.8	38.4	42.6	38.1	40.3	44.0	42.2	45.3	42.8	40.9
TOTAL WOMEN'S	**141.7**	**139.6**	**148.2**	**147.7**	**161.7**	**162.1**	**160.3**	**166.9**	**166.9**	**169.9**
MEN'S (sizes 10 and up)										
ANKLETS & FOOTSOCKS	43.7	27.9	27.8	27.1	27.2	26.8	26.0	26.6	26.9	24.1
MID-CALF	12.5	17.4	19.9	17.3	17.8	17.7	17.6	19.6	18.9	21.9
KNEE-HIGHS	16.0	17.8	20.7	17.6	21.5	23.9	23.8	21.5	18.4	21.2
TOTAL MEN'S	**72.2**	**63.1**	**68.4**	**62.0**	**66.5**	**68.4**	**67.4**	**67.7**	**64.2**	**67.2**
GIRLS', BOYS' & WOMEN'S (sizes 8 -11)										
ANKLETS	19.6	12.5	14.6	11.9	17.3	19.5	19.4	27.4	29.1	29.8
KNEE-HIGHS	22.1	24.3	29.8	23.4	25.7	20.2	17.0	13.7	11.4	11.1
MID-CALF/CREW }	NA	3.1	4.5	4.0	4.9	4.5	6.2	8.2	12.1	14.9
WAIST-HIGHS		0.3	0.5	0.5	0.5	0.5	0.6	0.5	0.7	0.7
FOOTSOCKS	6.7	8.6	9.4	6.5	5.8	5.2	6.1	6.4	5.9	4.6
TOTAL GIRLS', BOYS' & WOMEN'S	**48.4**	**48.8**	**58.8**	**46.3**	**54.2**	**49.9**	**49.3**	**56.2**	**59.2**	**61.1**
INFANTS' & CHILDREN'S (SIZES 3 - 8 1/2)										
ANKLETS	22.1	19.3	20.5	16.1	16.5	15.5	14.2	16.6	16.9	17.0
KNEE-HIGHS	8.5	6.6	7.7	6.7	7.0	5.8	4.6	3.5	3.3	3.9
MID-CALF	NA	1.3	1.2	1.4	1.4	3.6	5.7	6.7	7.9	10.8
WAIST-HIGHS & FOOTSOCKS	1.6	1.6	1.8	1.6	2.1	2.3	1.8	1.6	1.5	1.7
TOTAL INFANTS' & CHILDREN'S	**32.2**	**28.8**	**31.2**	**25.8**	**27.0**	**27.2**	**26.3**	**28.4**	**29.6**	**33.4**
TOTAL HOSIERY	**294.5**	**280.3**	**306.6**	**281.8**	**309.4**	**307.6**	**303.3**	**319.2**	**319.9**	**331.6**

SOURCE: National Association of Hosiery Manufactures - ***1988 Hosiery Statistics.***

* Less than 100 thousand dozen pairs

a. Includes opaque hosiery, which is defined as hosiery knit on 370 needles or more, using leg yarn 30 denier or coarser

TABLE 7:
U.S. MANUFACTURED FIBER IMPORTS
HARMONIZED TARIFF SCHEDULE NUMBERS

ITEM	SCHEDULE NUMBERS
ARTIFICIAL (CELLULOSIC) FIBER	
FILAMENT YARN	
HIGH TENACITY	5403103020, 5403103040 & 5403106000
TEXTURED	5403203000 & 5403206000
OTHER	5403310020 - 5403390040 & 5403410000 - 5403490000
MONOFILAMENTS & STRIPS	5405003000 & 5405006000
STAPLE	5504100000 & 5504900000
TOW	5502000000
TOPS	5507000000
WASTE	**5505200000**
SYNTHETIC (NONCELLULOSIC) FIBERS	
FILAMENT YARN	
NYLON	
HIGH TENACITY	5402103020, 5402103040 & 5402106000
TEXTURED	
UP TO 450 DENIER	5402313000 & 5402316000
OVER 450 DENIER	5402323000 & 5402326000
OTHER	5402410020, 5402410040, 5402510000 & 5402610000
MONOFILAMENTS & STRIPS	5404102020
POLYESTER	
HIGH TENACITY	5402203020, 5402203040 & 5402206000
TEXTURED	5402333000 & 5402336000
POY	5402420000
OTHER	5402430020, 5402430040, 5402520000 & 5402620000
MONOFILAMENTS & STRIPS	5404102040
OTHER SYNTHETIC FILAMENT	
TEXTURED	5402393000, 5402393010, 5402393090, 5402396000, 5402396010 & 5402396090
OTHER	5402490010, 5402490030, 5402490060, 5402490080, 5402590000 & 5402690000
MONOFILAMENTS & STRIPS	5404101000, 5404102090 & 5404900000
STAPLE	
NYLON	5503100000
POLYESTER	5503200000
ACRYLIC	5503300000
POLYPROPYLENE	5503400000
OTHER	5503900000
TOW	
NYLON	5501100000
POLYESTER	5501200000
ACRYLIC	5501300000
OTHER	5501900000
TOPS	5506100000, 5506200000, 5506300000, 5506900000
WASTE	
NYLON	5505100020
POLYESTER	5505100040
OTHER	5505100060
OTHER MFRD. FIBER YARN & THREAD	
SEWING THREAD	
FILAMENT	5401100000 & 5401200000
SPUN YARN	5508100000 & 5508200000
SPUN YARNS	
SYNTHETIC	5509110000, 5509210000, 5509513000, 5509310000, 5509410000, 5509692000, 5509992000, 5509120000, 5509220010, 5509220090, 5509516000, 5509320000, 5509420000, 5509694000, 5509994000, 5509520000, 5509530030, 5509530060, 5509590000, 5509610000, 5509620000, 5509696000, 5509910000, 5509920000 & 5509996000
ARTIFICIAL	5510110000, 5510902000, 5510120000, 5510904000, 5510200000, 5510300000 & 5510906000
PUT UP FOR RETAIL SALE	5406200000, 5511100030, 5511100060, 5511200000, 5406100020, 5406100040, 5406100090 & 5511300000

SOURCE: U.S. Census Bureau Report IM145X

TABLE 8:
U.S. MANUFACTURED FIBER EXPORTS
HARMONIZED TARIFF SCHEDULE NUMBERS

ITEM	SCHEDULE NUMBERS
ARTIFICIAL (CELLULOSIC) FIBER	
FILAMENT YARN	
HIGH TENACITY	5403100000, 5403103020, 5403103040 & 5403106000
TEXTURED	5403200000, 5403203000 & 5403206000
OTHER	5403310000 - 5403390040 & 5403410000 - 5403490000
MONOFILAMENTS & STRIPS	5405003000 & 5405006000
STAPLE	5504100000 & 5504900000
TOPS	5507000000
WASTE	**5505200000**
SYNTHETIC (NONCELLULOSIC) FIBERS	
FILAMENT YARN	
NYLON	
HIGH TENACITY	5402100000, 5402103020, 5402103040 & 5402106000
TEXTURED	
UP TO 450 DENIER	5402310000, 5402313000 & 5402316000
OVER 450 DENIER	5402320000, 5402322000 & 5402326000
OTHER	5402410020, 5402410030, 5402410040, 5402410060, 5402510000 & 5402610000
MONOFILAMENTS & STRIPS	5404102020
POLYESTER	
HIGH TENACITY	5402200000, 5402203020, 5402203040 & 5402206000
TEXTURED	5402330000, 5402333000 & 5402336000
POY	5402420000
OTHER	5402430020, 5402430030, 5402430040, 5402430060, 540252000 & 5402620000
MONOFILAMENTS & STRIPS	5404102040
OTHER SYNTHETIC FILAMENT	
TEXTURED	5402390000, 5402393000, 5402393010, 5402393090, 5402396000, 5402396010 & 5402396090
OTHER	5402490010, 5402490030, 5402490060, 5402490080, 5402494000, 540259000 & 540269000
MONOFILAMENTS & STRIPS	5404101000, 5404102090 & 5404900000
STAPLE	
NYLON	5503100000
POLYESTER	5503200000
ACRYLIC	5503300000
POLYPROPYLENE	5503400000
OTHER	5503900000
TOW	
NYLON	5501100000
POLYESTER	5501200000
ACRYLIC	5501300000
OTHER	5501900000
TOPS	5506100000, 5506200000, 5506300000, 5506900000
WASTE	
NYLON	5505100020
POLYESTER	5505100040
OTHER	5505100060
OTHER MFRD. FIBER YARN & THREAD	
SEWING THREAD	
FILAMENT	5401100000 & 5401200000
SPUN YARN	5508100000 & 5508200000
SPUN YARNS	
SYNTHETIC	5509110000, 5509210000, 5509510000, 5509513000, 5509310000, 5509410000, 5509690000, 5509692000, 5509990000, 5509992000, 5509120000, 5509220000, 5509220010, 5509220090, 5509516000, 5509520000, 5509530000, 5509530030, 5509530060, 5509590000, 5509610000, 5509620000, 5509696000, 5509910000, 5509920000 & 5509996000
ARTIFICIAL	5510110000, 5510900000, 5510902000, 5510120000, 5510904000, 5510200000, 5510300000, 5510906000 & 5511300000
PUT UP FOR RETAIL SALE	5406200000, 5511100000, 5511100030, 5511100060, 5511200000, 5406100020, 5406100040 & 5406100090

SOURCE: U.S. Census Bureau Report EM522

TABLE 9:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

	1989												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	114	266	408	205	111	192							1296	
TEXTURED	180	1	0	24	0	27							232	
OTHER	1726	1532	1671	1449	1732	1673							9783	
MONOFILAMENTS & STRIPS	96	40	120	150	73	38							517	
SUBTOTAL ABOVE	**2116**	**1839**	**2199**	**1828**	**1916**	**1930**							**11828**	**8055**
STAPLE	5924	3481	5624	4403	5312	3419							28163	
TOW	47	0	0	7	103	0							157	
TOPS	6	10	20	10	5	0							51	
SUBTOTAL ABOVE	**5977**	**3491**	**5644**	**4420**	**5420**	**3419**							**28371**	**7423**
WASTE	**18**	**122**	**47**	**213**	**0**	**0**							**400**	**5**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1037	1093	1506	1578	1829	1964							9007	
TEXTURED														
UP TO 450 DENIER	385	217	359	285	319	315							1880	
OVER 450 DENIER	1311	1054	1428	1294	1241	654							6982	
OTHER	3820	3306	3786	3845	4296	5210							24263	
MONOFILAMENTS & STRIPS	72	159	58	113	143	116							661	
SUBTOTAL ABOVE	**6625**	**5829**	**7137**	**7115**	**7828**	**8259**							**42793**	**18981**
POLYESTER														
HIGH TENACITY	957	880	909	488	797	703							4734	
TEXTURED	883	1673	1738	1766	1775	2385							10220	
POY	0	40	642	1088	2744	3214							7728	
OTHER	1152	1481	1719	1740	1324	1567							8983	
MONOFILAMENTS & STRIPS	65	80	34	55	24	70							328	
SUBTOTAL ABOVE	**3057**	**4154**	**5042**	**5137**	**6664**	**7939**							**31993**	**17938**
OTHER SYNTHETIC FILAMENT														
TEXTURED	2057	1685	1552	1054	2074	1555							9977	
OTHER	261	386	339	274	171	136							1567	
MONOFILAMENTS & STRIPS	147	299	308	324	395	357							1830	
SUBTOTAL ABOVE	**2465**	**2370**	**2199**	**1652**	**2640**	**2048**							**13374**	**21035**
STAPLE														
NYLON	1726	1896	1845	1592	1422	1273							9754	
POLYESTER	5584	5594	10047	10627	10327	8674							50853	
ACRYLIC	1934	1028	1576	1518	1206	1511							8773	
POLYPROPYLENE	44	55	197	351	93	220							960	
OTHER	172	1040	651	740	167	165							2935	
TOW														
NYLON	237	433	257	504	341	315							2087	
POLYESTER	47	78	131	49	140	114							559	
ACRYLIC	2023	1709	1127	2522	2868	1462							11711	
OTHER	117	120	146	0	0	14							397	
TOPS	488	358	398	437	334	201							2216	
SUBTOTAL ABOVE	**12372**	**12311**	**16375**	**18340**	**16898**	**13949**							**90245**	**97053**
WASTE														
NYLON	1971	1804	1754	2087	1949	2027							11592	
POLYESTER	999	340	730	1029	846	973							4917	
OTHER	396	725	477	486	547	389							3020	
TOTAL MANUFACTURED FIBERS ABOVE	**35996**	**32985**	**41604**	**42307**	**44708**	**40933**							**238533**	**192917**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	229	84	46	26	74	73							532	
SPUN YARN	492	396	370	287	418	406							2369	
SPUN YARNS														
SYNTHETIC	517	686	517	258	677	1019							3674	
ARTIFICIAL	0	0	0	0	0	0							0	
PUT UP FOR RETAIL SALE	71	50	27	37	74	39							298	
GRAND TOTAL ABOVE	**37305**	**34201**	**42564**	**42915**	**45951**	**42470**							**245406**	**239622**

SOURCE: U.S. Census Bureau Report IM145X

Effective January 1, 1989 the U.S. Imports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers. Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

U.S. Monthly Imports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 32.

TABLE 10:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

ITEM	1989												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	9	13	45	26	30	16							139	
TEXTURED	463	17	29	1	29	28							567	
OTHER	694	63	18	60	21	15							871	
MONOFILAMENTS & STRIPS	90	0	7	93	5	9							204	
SUBTOTAL ABOVE	**1256**	**93**	**99**	**180**	**85**	**68**							**1781**	**6337**
STAPLE	2827	1786	1325	920	1659	1786							10303	
TOPS	94	0	8	129	53	48							332	
SUBTOTAL ABOVE	**2921**	**1786**	**1333**	**1049**	**1712**	**1834**							**10635**	**12064**
WASTE	**1303**	**559**	**1587**	**1116**	**1635**	**1108**							**7308**	**983**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	9331	9410	7884	16614	6326	6999							56564	
TEXTURED														
UP TO 450 DENIER	522	586	719	666	819	1271							4583	
OVER 450 DENIER	4706	5051	5459	4430	4096	3626							27368	
OTHER	2038	2103	2133	2188	2571	2003							13036	
MONOFILAMENTS & STRIPS	239	258	187	131	204	303							1322	
SUBTOTAL ABOVE	**16836**	**17408**	**16382**	**24029**	**14016**	**14202**							**102873**	**79481**
POLYESTER														
HIGH TENACITY	3031	3122	2773	3282	4214	4080							20502	
TEXTURED	3651	3677	2385	2939	3208	3577							19437	
POY	939	1250	2204	1446	629	528							6996	
OTHER	1007	584	829	983	777	1186							5366	
MONOFILAMENTS & STRIPS	208	213	203	132	302	332							1390	
SUBTOTAL ABOVE	**8836**	**8846**	**8394**	**8782**	**9130**	**9703**							**53691**	**41720**
OTHER SYNTHETIC FILAMENT														
TEXTURED	1033	457	872	903	992	634							4891	
OTHER	1342	1471	1735	1730	1559	1332							9169	
MONOFILAMENTS & STRIPS	486	421	771	1317	927	987							4909	
SUBTOTAL ABOVE	**2861**	**2349**	**3378**	**3950**	**3478**	**2953**							**18969**	**23153**
STAPLE														
NYLON	2605	3265	3262	2629	3280	3985							19026	
POLYESTER	14048	10762	12940	12923	10675	7497							68845	
ACRYLIC	3326	5674	6643	6896	5342	9369							38250	
POLYPROPYLENE	1336	1569	1129	2264	2714	2477							11489	
OTHER	836	2036	1489	2562	1734	1757							10414	
TOW														
NYLON	31	50	50	108	141	86							466	
POLYESTER	37	564	472	634	7	621							2335	
ACRYLIC	1037	1761	2185	3302	1467	829							10581	
OTHER	161	16	34	503	9	7							730	
TOPS	847	964	1224	2191	3092	1230							9548	
SUBTOTAL ABOVE	**24264**	**26661**	**29428**	**34012**	**29461**	**27858**							**171684**	**200205**
WASTE														
NYLON	2127	2118	2159	2863	2102	2007							13376	
POLYESTER	4369	3980	3189	5535	3685	2726							23484	
OTHER	5113	6957	8080	6731	7071	5876							39828	
TOTAL MANUFACTURED FIBERS ABOVE	**69886**	**70757**	**74029**	**88267**	**72375**	**68335**							**443649**	**427046**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	13	51	43	74	9	93							283	
SPUN YARN	0	0	0	0	0	0							0	
SPUN YARNS														
SYNTHETIC	732	959	1152	1172	1944	1089							7048	
ARTIFICIAL	0	0	0	0	0	0							0	
PUT UP FOR RETAIL SALE	606	740	923	580	532	435							3816	
GRAND TOTAL ABOVE	**71237**	**72507**	**76147**	**90093**	**74860**	**69952**							**454796**	

SOURCE: U.S. Census Bureau Report EM522

Effective January 1, 1989 the U.S. Exports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon*** April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

U.S. Monthly Exports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 33.

TABLE 11:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	1989												YEAR TO DATE	
ITEMS & COUNTRY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	6	1	4	0							11	
BRAZIL	53	110	55	0	54	76							348	
CANADA	745	619	686	613	656	532							3851	
GERMANY FED REP OF	784	515	697	452	436	362							3246	
JAPAN	55	121	122	185	110	206							799	
MEXICO	156	99	171	45	153	144							768	
NETHERLANDS	61	239	261	173	204	380							1318	
UNITED KINGDOM	75	68	113	135	75	66							532	
ALL OTHER COUNTRIES [a]	187	68	88	224	224	164							955	
TOTAL ARTIFICIAL YARN	**2116**	**1839**	**2199**	**1828**	**1916**	**1930**							**11828**	**8055**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	323	422	377	226	381	430							2159	
CANADA	4757	1990	4093	3462	3409	2370							20081	
GERMANY FED REP OF	68	67	95	116	124	142							612	
JAPAN	150	521	422	263	107	60							1523	
UNITED KINGDOM	265	225	1	47	69	42							649	
ALL OTHER COUNTRIES [b]	414	266	656	306	1330	375							3347	
TOTAL ARTIFICIAL STAPLE+TOW	**5977**	**3491**	**5644**	**4420**	**5420**	**3419**							**28371**	**7423**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	0	56	115	171	343	236							921	
BRAZIL	106	63	170	30	140	201							710	
CANADA	3437	2926	2969	2399	3327	3304							18362	
COSTA RICA	252	487	591	433	415	517							2695	
ECUADOR	91	26	144	0	58	23							342	
FRANCE	1180	1151	1079	1159	1159	1085							6813	
GERMANY FED REP OF	2231	2204	2641	2514	2357	3691							15638	
IRELAND	0	32	1	0	0	0							33	
ISRAEL	299	217	172	149	285	244							1366	
ITALY	924	323	873	859	1031	132							4142	
JAPAN	469	610	568	609	548	502							3306	
KOREA REP OF	10	49	7	81	98	42							287	
MEXICO	1447	2222	2385	1857	2527	2911							13349	
NETHERLANDS	68	193	267	338	69	63							998	
SINGAPORE	0	25	0	33	0	33							91	
TAIWAN	50	175	650	1296	2844	3217							8232	
THAILAND	65	64	69	67	63	171							499	
UNITED KINGDOM	1482	1357	1409	1649	1790	1506							9193	
ALL OTHER COUNTRIES [c]	36	173	266	260	78	368							[illegible]	
TOTAL SYNTHETIC YARN	**12147**	**12353**	**14376**	**13904**	**17132**	**18246**							**86158**	**57954**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	3	9	13	1	0							26	
AUSTRALIA	31	160	1	82	16	43							333	
BELGIUM	47	99	60	56	67	7							336	
BRAZIL	0	24	0	0	0	0							24	
CANADA	1413	737	1481	1489	1292	874							7286	
FRANCE	230	304	253	405	388	336							1916	
GERMANY FED REP OF	1985	1758	1318	1293	1491	1780							9625	
INDIA	0	0	3772	3400	709	49							7930	
IRELAND	280	480	305	348	0	36							1449	
ITALY	482	394	206	46	61	34							1223	
JAPAN	1773	1757	2303	2770	2429	1826							12858	
KOREA REP OF	2297	3387	3933	4165	5687	4876							24345	
MEXICO	1049	372	420	1016	783	462							4102	
NETHERLANDS	31	103	99	81	56	105							475	
SWITZERLAND	146	165	134	166	125	42							778	
TAIWAN	262	235	215	808	917	2057							4494	
UNITED KINGDOM	2318	2304	1643	2107	2671	1229							12272	
ALL OTHER COUNTRIES [d]	28	29	223	95	205	193							773	
TOTAL SYNTHETIC STAPLE+TOW	**12372**	**12311**	**16375**	**18340**	**16898**	**13949**							**90245**	**97053**

a. Ireland 281, Chile 176, Korea, Rep. of 166, Italy 80, Taiwan 62, China, PRC 51, France 43, Greece 41, Norway 32, Singapore 23.

b. China, PRC 1225, Taiwan 464, Germany, Dem. Rep. 300, Switzerland 219, Australia 217, Korea, Rep. of 171, Poland 152, Romania 135, France 117, Sweden 76, Belgium 73, Italy 64, Finland 57, Spain 47, India 18 Thailand 11, Mexico 1.

c. Portugal 304, Egypt 258, Argentina 125, Turkey 115, Austria 89, Australia 49, Switzerland 43, Spain 34, Peru 34, El Salvador 31, Morocco 26, Hong Kong 24, Honduras 20, Sweden 10, Colombia 9, Denmark 8, Greece 2.

d. Spain 418, Turkey 166, Israel 142, Germany, Dem. Rep. 42, Hong Kong 3, China, PRC 2.

Effective January 1, 1989 the U.S. Manufactured Imports for Consumption by Country of Origin are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

Selected U.S. Manufactured Imports for Consumption by Country of Origin for 1988 are published in the ***Textile Organon***, February 1989 issue, page 31.

TABLE 12:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

	1989												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
	MANUFACTURED FIBER TOTAL SHIPMENTS[b c]													
ARTIFICIAL (CELLULOSIC)														
YARN	17.3	17.1	18.4	21.5	18.3	18.4	18.9						129.9	124.4
RAYON STAPLE	34.5	32.1	36.5	31.4	34.8	30.9	24.8						225.0	244.2
TOTAL ARTIFICIAL (CELLULOSIC)	**51.8**	**49.2**	**54.9**	**52.9**	**53.1**	**49.3**	**43.7**						**354.9**	**368.6**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	31.3	30.5	32.6	32.3	28.9	32.7	29.0						217.3	222.2
- CARPET	74.9	77.2	82.0	77.5	86.1	78.5	73.4						549.6	553.5
- TEXTILE[f]	33.9	33.2	35.0	34.6	33.8	34.2	31.8						236.5	219.0
POLYESTER - INDUSTRIAL[d]	28.6	29.7	30.9	32.2	30.4	32.8	30.7						215.3	208.8
- TEXTILE[f]	73.2	71.2	74.4	78.2	77.0	66.1	73.2						513.3	485.9
OLEFIN[e]	105.3	104.3	103.6	104.1	107.8	101.0	97.6						723.7	698.4
TOTAL YARN	**347.2**	**346.1**	**358.5**	**358.9**	**364.0**	**345.3**	**335.7**						**2455.7**	**2387.8**
STAPLE+TOW+FIBERFILL														
NYLON	82.3	78.4	88.8	76.4	81.3	78.3	74.9						560.4	546.9
ACRYLIC+MODACRYLIC	41.7	46.2	48.6	49.2	51.7	44.0	41.1						322.5	337.2
POLYESTER	205.8	192.1	212.4	214.3	208.1	193.9	179.1						1405.7	1380.6
OLEFIN	31.1	31.6	32.0	31.4	32.3	33.5	27.8						219.7	209.7
TOTAL STAPLE	**360.9**	**348.3**	**381.8**	**371.3**	**373.4**	**349.7**	**322.9**						**2508.3**	**2474.4**
TOTAL SYNTHETIC (NONCELLULOSIC)	**708.1**	**694.4**	**740.3**	**730.2**	**737.4**	**695.0**	**658.6**						**4964.0**	**4862.2**
TOTAL MANUFACTURED FIBER	**759.9**	**743.6**	**795.2**	**783.1**	**790.5**	**744.3**	**702.3**						**5318.9**	**5230.8**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	11.7	10.9	11.3	10.4	9.7	8.9	11.0						11.0	13.4
RAYON STAPLE	13.0	13.2	11.7	12.5	13.4	15.8	16.8						16.8	15.5
TOTAL ARTIFICIAL (CELLULOSIC)	**24.7**	**24.1**	**23.0**	**22.9**	**23.1**	**24.7**	**27.8**						**27.8**	**28.9**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.4	24.8	22.4	22.9	24.2	24.5	26.7						26.7	28.1
- CARPET	63.5	63.2	62.8	68.7	64.0	66.8	73.6						73.6	78.0
- TEXTILE[f]	47.1	48.3	46.4	47.0	47.4	49.2	52.7						52.7	55.3
POLYESTER - INDUSTRIAL[d]	35.0	31.4	30.6	31.6	30.9	31.9	33.9						33.9	33.3
- TEXTILE[f]	73.5	76.9	81.8	85.1	85.0	89.1	99.7						99.7	94.4
OLEFIN[e]	53.1	53.8	58.0	57.8	58.5	60.7	61.1						61.1	55.3
TOTAL YARN	**296.6**	**298.4**	**302.0**	**313.1**	**310.0**	**322.2**	**347.7**						**347.7**	**344.4**
STAPLE+TOW+FIBERFILL														
NYLON	51.8	52.9	51.0	57.5	57.5	57.0	59.1						59.1	66.5
ACRYLIC+MODACRYLIC	70.5	68.3	69.0	67.3	65.2	69.7	71.7						71.7	72.8
POLYESTER	163.5	163.8	158.5	164.4	176.2	191.0	226.5						226.5	205.7
OLEFIN	31.0	31.3	32.8	34.3	35.2	33.3	34.2						34.2	38.5
TOTAL STAPLE	**316.8**	**316.3**	**311.3**	**323.5**	**334.1**	**351.0**	**391.5**						**391.5**	**383.5**
TOTAL SYNTHETIC (NONCELLULOSIC)	**613.4**	**614.7**	**613.3**	**636.6**	**644.1**	**673.2**	**739.2**						**739.2**	**727.9**
TOTAL MANUFACTURED FIBER	**638.1**	**638.8**	**636.3**	**659.5**	**667.2**	**697.9**	**767.0**						**767.0**	**756.8**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	12.1	12.8	14.1	11.5	12.3								62.8	61.5
CARPET CLASS WOOL	0.8	1.4	1.5	1.6	1.6								6.9	7.3
TOTAL RAW WOOL	**12.9**	**14.2**	**15.6**	**13.1**	**13.9**								**69.7**	**68.8**
RAW COTTON	289.5	301.0	339.2	305.7	359.7	348.8							1943.9	1828.7

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

TABLE 13:
QUARTERLY MANUFACTURED FIBER DATA

MILLION POUNDS

ITEM	1987					1988					1989				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						YARN+MONOFILAMENTS									
CELLULOSIC YARN [d]															
PRODUCTION	46.2	46.7	45.2	53.0	191.1	49.1	54.4	54.9	55.5	213.9	52.7	55.8			
SHIPMENTS - DOMESTIC	39.2	43.6	40.2	43.8	166.8	41.4	47.3	45.8	48.1	182.6	46.0	50.3			
- EXPORT	5.0	5.9	6.1	7.9	24.9	8.7	7.9	10.0	7.5	34.1	6.8	7.9			
TOTAL SHIPMENTS	44.2	49.5	46.3	51.7	191.7	50.1	55.2	55.8	55.6	216.7	52.8	58.2			
ENDING STOCK	16.8	14.0	12.9	14.2		13.2	12.4	11.5	11.4		11.3	8.9			
IMPORTS	3.0	2.5	2.7	4.4	12.6	4.0	4.0	4.4	5.2	17.6	6.2	5.7			
TOTAL AVAILABLE	42.2	46.1	42.9	48.2	179.4	45.4	51.3	50.2	53.3	200.2	52.2	56.0			
NYLON															
PRODUCTION	414.1	427.5	432.9	422.7	1697.2	431.7	440.0	428.8	427.0	1727.5	436.8	447.5			
SHIPMENTS - DOMESTIC	389.3	394.8	405.8	364.4	1554.3	387.8	395.4	391.1	398.1	1572.4	387.9	399.7			
- EXPORT	32.1	37.9	33.7	35.8	139.5	39.6	38.1	41.5	46.8	166.0	42.6	38.9			
TOTAL SHIPMENTS	421.4	432.7	439.5	400.2	1693.8	427.4	433.5	432.6	444.9	1738.4	430.5	438.6			
ENDING STOCK	125.5	120.3	113.7	136.2		140.5	147.0	143.2	125.3		131.6	140.5			
OLEFIN [a]															
PRODUCTION	255.8	283.9	287.4	306.7	1133.8	301.6	308.9	291.7	302.0	1204.2	318.1	324.5			
SHIPMENTS - DOMESTIC	261.5	281.8	287.5	304.7	1135.5	298.3	302.5	287.7	295.6	1184.1	308.0	315.5			
- EXPORT	2.7	1.7	1.8	2.1	8.3	2.7	5.9	6.0	5.2	19.8	5.2	6.3			
TOTAL SHIPMENTS	264.2	283.5	289.3	306.8	1143.8	301.0	308.4	293.7	300.8	1203.9	313.2	321.8			
ENDING STOCK	54.5	54.9	53.0	52.9		53.5	54.0	52.0	53.2		58.0	60.7			
POLYESTER															
PRODUCTION	287.7	303.3	293.9	293.8	1178.7	284.5	313.5	304.6	326.1	1228.7	314.4	325.3			
SHIPMENTS - DOMESTIC	266.8	285.2	280.8	280.6	1113.4	266.7	291.9	278.2	320.6	1157.4	292.0	303.6			
- EXPORT	16.4	18.4	15.8	16.3	66.9	18.8	17.8	16.7	21.4	74.7	15.9	13.1			
TOTAL SHIPMENTS	283.2	303.6	296.6	296.9	1180.3	285.5	309.7	294.9	342.0	1232.1	307.9	316.7			
ENDING STOCK	115.4	115.1	112.4	109.3		108.3	112.1	121.8	105.9		112.4	121.0			
TOTAL NONCELLULOSIC ABOVE															
PRODUCTION	957.6	1014.7	1014.2	1023.2	4009.7	1017.8	1062.4	1025.1	1055.1	4160.4	1069.3	1097.3			
SHIPMENTS - DOMESTIC	917.6	961.8	974.1	949.7	3803.2	952.8	989.8	957.0	1014.3	3913.9	987.9	1018.8			
EXPORT	51.2	58.0	51.3	54.2	214.7	61.1	61.8	64.2	73.4	260.5	63.7	58.3			
SHIPMENTS	968.8	1019.8	1025.4	1003.9	4017.9	1013.9	1051.6	1021.2	1087.7	4174.4	1051.6	1077.1			
ENDING STOCK	295.4	290.3	279.1	298.4		302.3	313.1	317.0	284.4		302.0	322.2			
DOMESTIC SHIPMENTS	917.6	961.8	974.1	949.7	3803.2	952.8	989.8	957.0	1014.3	3913.9	987.9	1018.8			
IMPORTS - TEXTURED YARN [b]	19.3	15.1	17.2	16.9	68.5	15.7	14.7	16.1	14.1	60.6	14.3	14.7			
- OTHER YARN [b]	13.3	12.4	11.9	11.3	48.9	11.2	11.1	11.9	13.4	47.6	23.4	33.0			
- MONOFILAMENTS	0.8	0.9	1.0	1.1	3.8	1.8	2.3	2.0	2.0	8.1	1.2	1.6			
TOTAL IMPORTS	33.4	28.4	30.1	29.3	121.2	28.7	28.1	30.0	29.5	116.3	38.9	49.3			
TOTAL AVAILABLE	951.0	990.2	1004.2	979.0	3924.4	981.5	1017.9	987.0	1043.8	4030.2	1026.8	1068.1			
						GLASS FIBER									
TOTAL SHIPMENTS	366.1	392.5	383.3	371.2	1513.1	386.4	415.2	405.9	380.2	1587.7	394.2	407.3			
IMPORTS	4.9	5.6	11.3	7.6	29.4	5.6	7.1	6.5	7.0	26.2	0.7	1.2			

FOOTNOTES FOR TABLE ABOVE & OPPOSITE:

"Imports" are imports for consumption, as reported by the U.S. Census Bureau.

a. Also include film fiber as well as spunbonded polypropylene.

b. Includes singles and plied.

c. For 1987-1988, these figures are composites of the nylon, acrylic+modacrylic and polyester staple imports, i.e., Commodity Numbers 309.4331, 4351, 4336 & 4361. For 1989, Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon.***

d. Includes both rayon & acetate yarn.

e. For 1987-1988, these figures are composites of olefin and other staple imports, i.e., Commodity Numbers 309.4371, 4341 & 4390. For 1989, Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon.***

f. 1987-1989 data exclude Vinyon.

TABLE 13:
QUARTERLY MANUFACTURED FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1987					1988					1989				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						STAPLE+TOW									
RAYON															
PRODUCTION	**101.3**	**100.5**	**103.6**	**108.4**	**413.8**	**106.6**	**101.2**	**99.4**	**92.6**	**399.8**	**100.8**	**101.2**			
SHIPMENTS - DOMESTIC	91.8	91.0	97.9	102.4	383.1	101.9	102.0	94.0	88.1	386.0	99.7	91.7			
- EXPORT	8.1	8.2	12.6	3.5	32.4	5.1	6.1	5.5	3.8	20.5	3.4	5.4			
TOTAL SHIPMENTS	**99.9**	**99.2**	**110.5**	**105.9**	**415.5**	**107.0**	**108.1**	**99.5**	**91.9**	**406.5**	**103.1**	**97.1**			
ENDING STOCK	**23.8**	**25.1**	**18.2**	**20.7**		**20.3**	**13.4**	**13.3**	**14.0**		**11.7**	**15.8**			
DOMESTIC SHIPMENTS	91.8	91.0	97.9	102.4	383.1	101.9	102.0	94.0	88.1	386.0	99.7	91.7			
IMPORTS FOR CONSUMPTION															
STAPLE	3.9	3.8	2.6	2.7	13.0	3.2	3.8	5.5	6.5	19.0	} 15.1	13.3			
GROUPED FILAMENTS	0.2	0.1	0.4	0.2	0.9	0.2	0.3	0.5	0.4	1.4					
TOTAL IMPORTS	4.1	3.9	3.0	2.9	13.9	3.4	4.1	6.0	6.9	20.4	15.1	13.3			
TOTAL AVAILABLE	**95.9**	**94.9**	**100.9**	**105.3**	**397.0**	**105.3**	**106.1**	**100.0**	**95.0**	**406.4**	**114.8**	**105.0**			
NYLON															
PRODUCTION	**247.4**	**261.0**	**252.8**	**231.2**	**992.4**	**231.5**	**235.9**	**226.6**	**247.7**	**941.7**	**253.0**	**242.0**			
SHIPMENTS-DOMESTIC	246.2	253.2	246.2	220.4	966.0	239.4	223.9	241.6	240.0	944.9	242.0	231.2			
-EXPORT	5.3	5.0	3.7	5.5	19.5	4.3	4.3	4.9	5.5	19.0	7.5	4.8			
TOTAL SHIPMENTS	**251.5**	**258.2**	**249.9**	**225.9**	**985.5**	**243.7**	**228.2**	**246.5**	**245.5**	**963.9**	**249.5**	**236.0**			
ENDING STOCK	**58.7**	**61.5**	**64.4**	**69.7**		**57.5**	**65.2**	**45.3**	**47.5**		**51.0**	**57.0**			
IMPORTS	14.8	8.7	8.6	6.9	39.0	4.9	5.1	5.4	6.5	21.9	6.2	5.4			
TOTAL AVAILABLE	**261.0**	**261.9**	**254.8**	**227.3**	**1005.0**	**244.3**	**229.0**	**247.0**	**246.5**	**966.8**	**248.2**	**236.6**			
ACRYLIC+MODACRYLIC															
PRODUCTION	**155.7**	**159.0**	**135.3**	**141.5**	**591.5**	**148.8**	**150.9**	**141.5**	**146.9**	**588.1**	**144.3**	**145.6**			
SHIPMENTS-DOMESTIC	139.4	131.6	112.8	95.5	479.3	109.0	109.3	107.3	95.5	421.1	112.9	112.4			
-EXPORT	14.7	17.0	32.0	51.4	115.1	47.7	29.1	39.8	52.5	169.1	23.6	32.5			
TOTAL SHIPMENTS	**154.1**	**148.6**	**144.8**	**146.9**	**594.4**	**156.7**	**138.4**	**147.1**	**148.0**	**590.2**	**136.5**	**144.9**			
ENDING STOCK	**67.8**	**78.2**	**68.7**	**63.3**		**55.4**	**67.9**	**62.3**	**61.2**		**69.0**	**69.7**			
IMPORTS	3.3	4.1	4.6	3.7	15.7	3.3	4.4	3.3	4.3	15.3	9.4	11.1			
TOTAL AVAILABLE	**142.7**	**135.7**	**117.4**	**99.2**	**495.0**	**112.3**	**113.7**	**110.6**	**99.8**	**436.4**	**122.3**	**123.5**			
OLEFIN+VINYON [f]															
PRODUCTION	**85.5**	**92.3**	**92.1**	**90.6**	**360.5**	**94.3**	**94.5**	**85.9**	**89.3**	**364.0**	**97.2**	**97.7**			
SHIPMENTS-DOMESTIC	81.1	85.7	86.1	88.2	341.1	83.8	87.6	84.8	88.0	344.2	91.6	93.5			
-EXPORT	6.9	5.7	5.4	4.8	22.8	5.6	5.8	4.4	3.8	19.6	3.1	3.7			
TOTAL SHIPMENTS	**88.0**	**91.4**	**91.5**	**93.0**	**363.9**	**89.4**	**93.4**	**89.2**	**91.8**	**363.8**	**94.7**	**97.2**			
ENDING STOCK	**31.0**	**31.9**	**32.5**	**30.1**		**35.0**	**36.1**	**32.8**	**30.3**		**32.8**	**33.3**			
POLYESTER															
PRODUCTION	**581.0**	**596.2**	**578.4**	**606.2**	**2361.8**	**587.4**	**619.5**	**604.3**	**640.6**	**2451.8**	**609.3**	**648.8**			
SHIPMENTS-DOMESTIC	534.4	549.9	537.5	579.2	2201.0	558.3	572.5	551.2	629.8	2311.8	575.3	594.6			
-EXPORT	48.2	47.0	38.3	34.7	168.2	27.8	31.1	38.2	40.0	137.1	34.9	21.7			
TOTAL SHIPMENTS	**582.6**	**596.9**	**575.8**	**613.9**	**2369.2**	**586.1**	**603.6**	**589.4**	**669.8**	**2448.9**	**610.2**	**616.3**			
ENDING STOCK	**162.3**	**161.6**	**164.2**	**156.5**		**157.8**	**173.7**	**188.6**	**159.4**		**158.5**	**191.0**			
IMPORTS	15.5	17.4	23.4	14.4	70.7	15.0	20.7	22.3	15.2	73.2	21.5	29.9			
TOTAL AVAILABLE	**549.9**	**567.3**	**560.9**	**593.6**	**2271.7**	**573.3**	**593.2**	**573.5**	**645.0**	**2385.0**	**596.8**	**624.5**			
TOTAL NONCELLULOSIC															
PRODUCTION	**1069.6**	**1108.5**	**1058.6**	**1069.5**	**4306.2**	**1062.0**	**1100.8**	**1058.3**	**1124.5**	**4345.6**	**1103.8**	**1134.1**			
SHIPMENTS-DOMESTIC	1001.1	1020.4	982.6	983.3	3987.4	990.5	993.3	984.9	1053.3	4022.0	1021.8	1031.7			
-EXPORT	75.1	74.7	79.4	96.4	325.6	85.4	70.3	87.3	101.8	344.8	69.1	62.7			
TOTAL SHIPMENTS	**1076.2**	**1095.1**	**1062.0**	**1079.7**	**4313.0**	**1075.9**	**1063.6**	**1072.2**	**1155.1**	**4366.8**	**1090.9**	**1094.4**			
ENDING STOCK	**319.8**	**333.2**	**329.8**	**319.6**		**305.7**	**342.9**	**329.0**	**298.4**		**311.3**	**351.0**			
DOMESTIC SHIPMENTS	1001.1	1020.4	982.6	983.3	3987.4	990.5	933.3	984.9	1053.3	4022.0	1021.8	1031.7			
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE [c]	33.6	30.2	36.6	25.0	125.4	23.2	30.2	31.0	26.0	110.4	37.1	46.4			
OTHER N.C. STAPLE [e]	2.8	3.6	3.7	3.4	13.5	5.6	5.7	4.3	4.2	19.8	} 4.0	2.8			
GROUPED FILAMENTS	12.4	12.4	12.1	13.1	50.0	14.5	17.8	15.7	17.8	65.8					
TOTAL IMPORTS	48.8	46.2	52.4	41.5	188.9	43.3	53.7	51.0	48.0	196.0	41.1	49.2			
TOTAL AVAILABLE	**1049.9**	**1066.6**	**1035.0**	**1024.8**	**4176.3**	**1033.8**	**1047.0**	**1035.9**	**1101.3**	**4218.0**	**1062.9**	**1080.9**			

See footnotes on opposite page

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Manufactured FIBER REVIEW

A Monthly Summary of Fiber Production Information

Formerly The Man-Made Fiber Review

Vol. 8, No. 4 April 1989

HIGHLIGHTS

In March production of noncellulosic fiber (except aramid, saran and spandex) totaled 733.9 million pounds, 6.7% above the 687.9 million pounds produced in February. Filament yarn production rose 3.3% to 351.1 million pounds and staple+tow rose 10.0% to 382.8 million pounds.

Shipments of noncellulosic fiber (except aramid, saran and spandex) rose in March to 735.2 million pounds, up 7.1% from the 686.3 million pounds shipped in February. Deliveries of filament yarn rose 3.3% to 349.0 million pounds and shipments of staple+tow rose 10.8% to 386.2 million pounds.

March producer exports of polyester staple+tow remained the same at 10.9 million pounds and exports of acrylic+modacrylic staple+tow rose to 10.2 million pounds, up 67.2%. For March 1989, producer exports of polyester staple+tow were 15.9% above the 9.4 million pounds exported in March 1988.

As of the end of March, stocks of noncellulosic fibers fell to 613.8 million pounds, down 0.2% from 615.1 million pounds in February. Stocks of staple+tow fell 1.1% and stocks of filament yarn rose 0.7%.

MANUFACTURED FIBER PRODUCTION DATA

MILLION POUNDS & PERCENT CHANGE

ITEM	1989 MAR	1989 FEB	% CHG 3-89/2-89	1988 MAR	% CHG 3-89/3-88	YEAR TO DATE 1989	YEAR TO DATE 1988	% CHG 1989/1988
CELLULOSIC								
YARN	18.8	16.2	*+16.0*	18.0	*+4.4*	52.6	49.3	*+6.7*
RAYON STAPLE	35.0	32.3	*+8.4*	36.3	*-3.6*	100.8	106.6	*-5.4*
TOTAL CELLULOSIC FIBER	**53.8**	**48.5**	***+10.9***	**54.3**	***-0.9***	**153.4**	**155.9**	***-1.6***
NONCELLULOSIC								
YARN								
NYLON - INDUSTRIAL	29.9	30.8	*-2.9*	32.6	*-8.3*	94.1	97.0	*-3.0*
- CARPET	81.9	76.8	*+6.6*	85.1	*-3.8*	239.6	239.5	*- -*
- TEXTILE [a]	33.0	34.3	*-3.8*	30.8	*+7.1*	102.7	95.2	*+7.9*
POLYESTER - INDUSTRIAL	29.5	25.1	*+17.5*	30.3	*-2.6*	83.2	87.5	*-4.9*
- TEXTILE [a]	81.2	74.4	*+9.1*	65.7	*+23.6*	230.8	197.0	*+17.2*
OLEFIN	95.6	98.5	*-2.9*	100.9	*-5.3*	292.4	301.6	*-3.1*
TOTAL YARN	**351.1**	**339.9**	***+3.3***	**354.4**	***+1.7***	**1042.8**	**1017.8**	***+2.5***
STAPLE+TOW+FIBERFILL								
NYLON	86.6	79.6	*+8.8*	76.4	*+13.4*	252.8	231.5	*+9.2*
ACRYLIC+MODACRYLIC	48.8	43.9	*+11.2*	52.0	*-6.2*	143.8	148.8	*3.4*
POLYESTER	214.5	192.4	*+11.5*	192.5	*+11.4*	611.5	587.4	*+4.1*
OLEFIN	32.9	32.1	*+2.5*	32.0	*+2.8*	96.7	94.3	*+2.5*
TOTAL STAPLE	**382.8**	**348.0**	***+10.0***	**352.9**	***+8.5***	**1104.8**	**1062.0**	***+4.0***
TOTAL NONCELLULOSIC FIBER	**733.9**	**687.9**	***+6.7***	**698.3**	***+5.1***	**2147.6**	**2079.8**	***+3.3***
TOTAL MANUFACTURED FIBER	**787.7**	**736.4**	***+7.0***	**752.6**	***+4.7***	**2301.0**	**2235.7**	***+2.9***

a. Includes low denier industrial nylon and polyester yarn

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NONCELLULOSIC YARN+MONOFILAMENTS
PRODUCTION, SHIPMENTS & STOCK
MONTHLY 1989
MILLION POUNDS

	1989												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
NYLON														
INDUSTRIAL[a]														
Domestic Shipments-Tires	11.9	13.0	13.5										38.4	39.5
-Other	9.1	8.7	8.8										26.6	27.9
Export	10.3	8.8	9.9										29.0	27.0
Ending Stock	24.4	24.7	22.4										22.4	23.5
CARPET														
Domestic Shipments	71.7	73.9	79.4										225.0	228.2
Export	3.0	3.1	3.0										9.1	9.7
Ending Stock	63.5	63.3	62.8										62.8	67.0
TEXTILE[c]														
Domestic Shipments	•32.5	•31.7	33.3										97.5	92.2
Export	1.5	1.5	1.5										4.5	2.9
Ending Stock	•47.1	•48.2	46.4										46.4	50.0
TOTAL NYLON ABOVE														
PRODUCTION	**•149.7**	**•141.9**	**144.8**										**436.4**	**431.7**
Domestic Shipments	•125.2	•127.3	135.0										387.5	387.8
Export	14.8	13.4	14.4										42.6	39.6
TOTAL SHIPMENTS	**•140.0**	**•140.7**	**149.4**										**430.1**	**427.4**
ENDING STOCK	**•135.0**	**•136.2**	**131.6**										**131.6**	**140.5**
POLYESTER														
INDUSTRIAL[a]														
Domestic Shipments-Tires	13.3	14.0	14.2										41.5	41.1
-Other	12.5	11.2	12.6										36.3	34.3
Export	2.8	3.5	3.6										9.9	11.1
Ending Stock	35.0	31.4	30.5										30.5	28.8
TEXTILE[c]														
Domestic Shipments by Denier														
40+50 (55 & Finer)	2.2	2.5	3.3										8.0	8.2
70 (56-89)	11.4	10.8	10.6										32.8	29.1
100 (90-109)	3.8	4.0	4.5										12.3	9.4
120 (110-129) & 135 (130-144)	•1.0	•1.0	1.4										3.4	4.7
150 (145-179)	•44.7	•44.4	46.8										135.9	121.2
200 (180 & Coarser)	•7.0	•6.3	7.0										20.3	18.7
Total Textile Domestic	•70.1	•69.0	73.6										212.7	191.3
Domestic Shipments also Divided as														
Textured Yarn	•54.4	•54.0	56.1										164.5	146.7
Flat Yarn	15.7	15.0	17.5										48.2	44.6
Export Poy	2.0	1.5	1.2										4.7	}7.7
Export Flat	0.4	0.6	0.2										1.2	
Ending Stock	•73.6	76.9	83.1										83.1	79.5
TOTAL POLYESTER ABOVE														
PRODUCTION	**103.8**	**•99.5**	**110.7**										**314.0**	**284.5**
Domestic Shipments	•95.9	•94.2	100.4										290.5	266.7
of Which Indirect Exports	*2.3*	*2.3*	*2.8*										*7.4*	*12.9*
Export	5.2	5.6	5.0										15.8	18.8
TOTAL SHIPMENTS	**•101.1**	**•99.8**	**105.4**										**306.3**	**285.5**
ENDING STOCK	**•108.6**	**108.3**	**113.6**										**113.6**	**108.3**
OLEFIN														
PRODUCTION	**98.3**	**98.5**	**95.6**										**292.4**	**301.6**
Shipments														
Filament Yarn	25.4	25.4	21.9										72.7	67.7
Film Fiber & Other	73.1	72.0	72.3										217.4	233.3
TOTAL SHIPMENTS	**98.5**	**97.4**	**94.2**										**290.1**	**301.0**
ENDING STOCK	**53.0**	**54.1**	**55.5**										**55.5**	**53.5**
TOTAL ABOVE[b]														
PRODUCTION	**•351.8**	**•339.9**	**351.1**										**1042.8**	**1017.8**
DOMESTIC SHIPMENTS[d]	•319.6	•318.9	329.6										968.1	955.5
EXPORTS[e]	20.0	19.0	19.4										58.4	58.4
TOTAL SHIPMENTS	**•339.6**	**•337.9**	**349.0**										**1026.5**	**1013.9**
ENDING STOCK	**•296.6**	**•298.6**	**300.7**										**300.7**	**302.3**

See footnotes opposite.

NONCELLULOSIC STAPLE+TOW+FIBERFILL
PRODUCTION, SHIPMENTS & STOCK
MONTHLY 1989
MILLION POUNDS

	1989												YEAR TO DATE	
ITEM	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	**1989**	**1988**
NYLON														
PRODUCTION - TOTAL	**86.6**	**79.6**	**86.6**										**252.8**	**231.5**
Domestic Shipments by Denier														
Less than 10	8.3	6.7	7.5										22.5	22.3
10, Less than 15	2.5	2.8	2.9										8.2	7.0
15, Less than 20	64.3	61.6	69.6										195.5	191.0
20 & Coarser	4.5	5.0	6.2										15.7	19.1
Total Domestic Shipments	79.6	76.1	86.2										241.9	239.4
Export	2.7	2.3	2.5										7.5	4.3
TOTAL SHIPMENTS	**82.3**	**78.4**	**88.7**										**249.4**	**243.7**
ENDING STOCK	**51.8**	**53.0**	**50.9**										**50.9**	**57.5**
ACRYLIC+MODACRYLIC														
PRODUCTION - TOTAL	**51.1**	**43.9**	**48.8**										**143.8**	**148.8**
Domestic Shipments by Denier														
Less than 4	26.4	30.2	30.1										86.7	83.8
4 & Coarser	7.9	9.9	8.5										26.3	25.2
Total Domestic Shipments	34.3	40.1	38.6										113.0	109.0
Export	7.4	6.1	10.2										23.7	47.7
TOTAL SHIPMENTS	**41.7**	**46.2**	**48.8**										**136.7**	**156.7**
ENDING STOCK	**70.6**	**68.3**	**68.3**										**68.3**	**55.4**
POLYESTER														
PRODUCTION - TOTAL	**204.6**	***192.4**	**214.5**										**611.5**	**587.4**
Domestic Shipments by Denier														
Fiberfill	30.1	28.6	31.9										90.6	85.3
Less than 1.3	59.7	*58.6	67.2										185.5	165.5
1.3, Less than 2.5	51.9	*50.3	59.3										161.5	175.9
2.5, Less than 5.5	12.1	11.9	13.0										37.0	34.3
5.5, Less than 10	6.2	8.0	8.0										22.2	19.3
10 & Coarser	27.3	23.8	27.0										78.1	78.0
Total Domestic Shipments	187.3	*181.2	206.4										574.9	558.3
Domestic Shipments also Divided as														
Carpet	19.9	18.9	21.4										60.2	66.1
Other	167.4	*162.3	185.0										514.7	492.2
Export	13.2	10.9	10.9										35.0	27.8
TOTAL SHIPMENTS	**200.5**	***192.1**	**217.3**										**609.9**	**586.1**
ENDING STOCK	**163.5**	**163.8**	**161.0**										**161.0**	**157.8**
OLEFIN														
PRODUCTION	**31.7**	***32.1**	**32.9**										**96.7**	**94.3**
SHIPMENTS	**31.0**	***31.7**	**31.4**										**94.1**	**89.4**
ENDING STOCK	**31.0**	**31.4**	**32.9**										**32.9**	**35.0**
TOTAL ABOVE														
PRODUCTION	**374.0**	***348.0**	**382.8**										**1104.8**	**1062.0**
DOMESTIC SHIPMENTS [d]	332.2	*329.1	362.6										1023.9	996.1
EXPORTS [e]	23.3	19.3	23.6										66.2	79.8
TOTAL SHIPMENTS	**355.5**	***348.4**	**386.2**										**1090.1**	**1075.9**
ENDING STOCK	**316.9**	**316.5**	**313.1**										**313.1**	**305.7**

*. Revised

[a] Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier

[b] Does not include saran or spandex

[c] Low denier industrial included with Textile

[d] Includes olefin exports

[e] Excludes olefin exports

CELLULOSIC YARN & STAPLE+TOW
PRODUCTION, SHIPMENTS & STOCK
MONTHLY 1989
MILLION POUNDS

	1989												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
	YARN+MONOFILAMENTS													
CELLULOSIC YARN														
PRODUCTION	**17.6**	**16.2**	**18.8**										**52.6**	**49.3**
SHIPMENTS-Domestic	15.2	14.6	16.1										45.9	41.4
-Export	2.1	2.4	2.3										6.8	8.7
-TOTAL	**17.3**	**17.0**	**18.4**										**52.7**	**50.1**
ENDING STOCK	**11.7**	**10.9**	**11.3**										**11.3**	**13.2**

INCLUDES ACETATE AND RAYON YARN+MONOFILAMENT.

	STAPLE+TOW													
RAYON														
PRODUCTION	**33.5**	**32.3**	**35.0**										**100.8**	**106.6**
SHIPMENTS-Domestic	33.5	31.0	35.2										99.7	101.9
-Export	1.0	1.1	1.3										3.4	5.1
-TOTAL	**34.5**	**32.1**	**36.5**										**103.1**	**107.0**
ENDING STOCK	**13.0**	**13.2**	**11.7**										**11.7**	**20.3**

ESTIMATED U.S. MILL CONSUMPTION
MILLION POUNDS

	1988 REVISED												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC														
YARN	14	15	16	18	16	17	17	16	17	18	17	19	200	180
STAPLE	33	36	39	36	37	37	30	38	36	37	31	30	420	410
TOTAL CELLULOSIC	**47**	**51**	**55**	**54**	**53**	**54**	**47**	**54**	**53**	**55**	**48**	**49**	**620**	**590**
NONCELLULOSIC														
YARN	310	333	342	343	341	338	310	339	342	353	345	350	4046	3933
STAPLE	345	365	377	368	365	365	338	378	368	395	367	387	4418	4385
TOTAL NONCELLULOSIC	**655**	**698**	**719**	**711**	**706**	**703**	**648**	**717**	**710**	**748**	**712**	**737**	**8464**	**8318**
TOTAL MANUFACTURED FIBER [a]	**702**	**749**	**774**	**765**	**759**	**757**	**695**	**771**	**763**	**803**	**760**	**786**	**9084**	**8908**
COTTON	300	311	339	278	303	297	226	240	307	269	292	238	3400	3738
WOOL	14	13	16	13	13	15	13	11	12	14	12	12	158	169
TOTAL FIBER	**1016**	**1073**	**1129**	**1056**	**1075**	**1069**	**934**	**1022**	**1082**	**1086**	**1064**	**1036**	**12642**	**12815**
% OF MILL CONSUMPTION														
MANUFACTURED FIBER	*69*	*70*	*69*	*73*	*71*	*71*	*74*	*76*	*71*	*74*	*72*	*76*	*72*	*70*
COTTON	*30*	*29*	*30*	*26*	*28*	*28*	*25*	*23*	*28*	*25*	*27*	*23*	*27*	*29*
WOOL	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*

a. Excludes glass fiber, acetate cigarette tow and Aramid

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FIBER ORGANON

Formerly Textile Organon

Volume 60, No. 9 ☐ September 1989

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MANUFACTURED FIBER, COTTON & WOOL END USE SURVEY

HIGHLIGHTS

- Annual Manufactured Fiber, Cotton and Wool End Use Survey.
- Manufactured Fiber & Semimanufactured Imports 1984 -1988 . . . see page 206.

This month's issue of the ***Fiber Organon*** contains our annual report of U.S. manufactured, cotton and wool fiber consumption by end use. This report is part of a continuing series covering fiber end use for the 40 years 1949-1988.

This survey is to measure the amount of raw manufactured, cotton and wool fiber required to produce the various end use items. Other fibers such as silk, linen, jute and sisal are used in the various products covered by the survey, but no quantity data for these fibers are included in the end uses.

Comparability With Past Data

Every year we report the most up-to-date information on fiber end use, which means previous data must sometimes be revised. Data in a series which has been revised will be denoted by an "r". Changes in definitions or coverage in an end use item are noted in the definitions.

For example, data on glass fiber are no longer available to prevent disclosure of company-level data. These data were last reported in the September 1985 issue. There are new definitions for waste, apparel, home textiles and industrial and other consumer-type items.

The data in this survey may be used in conjunction with earlier issues of the ***Textile Organon*** as follows:

Years	*Textile Organon Issues*
1949-1955	November 1961
1956-1959	January 1966
1960-1963	January 1970
1964-1965	November 1971
1966-1967	November 1973
1968-1969	November 1975
1970	November 1976
1971-1972	November & December 1978
1973	November 1980
1974	November 1981
1975	November 1982
1976	November 1983
1977	September 1984
1978	September 1985
1979	September 1986
1983	September 1987
1984	September 1988

Continued On Page 203

TABLE 1:
U.S. FIBER CONSUMPTION BY END USE [a]

END USE	TOTAL FIBER								MANUFACTURED FIBER							
	MILLION POUNDS				% OF TOTAL END USE [b]				MILLION POUNDS				% OF TOTAL END USE [b]			
	1985	1986	1987	1988	1985	1986	1987	1988	1985	1986	1987	1988	1985	1986	1987	1988
APPAREL	4483	5131	5336	5033	38	40	39	37	2375	2630	2638	2507	29	30	29	27
HOME TEXTILES	1895	2000	2193	2082	16	15	16	16	966	900	912	953	12	10	10	10
FLOOR COVERINGS	2565	2799	2975	3060	22	22	22	23	2538	2767	2934	3023	31	32	32	33
INDUSTRIAL & OTHER CONS. - TYPE PROD	2468	2608	2810	2827	21	20	20	21	2080	2238	2419	2489	25	25	26	27
EXPORTS	329	384	406	456	3	3	3	3	210	232	264	313	3	3	3	3
TOTAL END USE	**11740**	**12922**	**13720**	**13458**	100	100	100	100	**8169**	**8767**	**9167**	**9285**	100	100	100	100

All data are drawn from the U.S. End Use Summary table on page 204

NOTE: Data on Glass Fiber is no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

[a] Includes domestic shipments, fiber, yarn, fabric imports and waste

[b] The percentages in these columns show the usage of each type of fiber by its major end use categories. They add to 100% vertically.

Fiber Organon

A Monthly Review
Formerly ***Textile Organon***

September 1989

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SURVEY COVERAGE

Table Presentation

End use data are presented by type of fiber, manufactured, cotton and wool; by type of end use product; and by exports of domestic semimanufactured products. All data are in millions of pounds.

Table 1 shows both total and manufactured fiber consumption by end use for the years 1985, 1986, 1987 and 1988. In addition to the pounds of fiber consumed, the percentage of total end use is reported for five categories: apparel, home textiles, floor coverings, industrial and other consumer-type products and exports.

Table 2 presents greater fiber and annual detail than Table 1. Percentage distributions are given for both total end use and for individual end uses.

Tables 7 through 10 give further detail on each of the five end uses reported in Table 2, covering the same five year period 1984-1988. The major change in Tables 7-10 are: Home Textiles Item 51 is now "Curtains & Drapery", and Item 52 is "Upholstery" only (Table 8).

The substantial imports of finished products, such as apparel, blankets, tablecloths and rugs are not included in this survey as they are not manufactured in domestic mills.

Fibers Covered

The manufactured fiber data are presented in two general categories. Artificial (Cellulosic), which includes rayon and acetate, and Synthetic (Noncellulosic), which includes nylon, polyester, acrylic and olefin. Glass fiber is no longer included. See footnote (b) under General Notes on page 214 for additional descriptions. The cotton end use data cover raw cotton. Cotton waste and cotton linters quantities are excluded, except when pertaining to waste. See the section describing waste fiber coverage for further explanation. Wool data cover both virgin and reprocessed and reused wool.

SURVEY WASTE FIBER COVERAGE

In the survey, textile fiber waste is handled in three different ways: First, end uses which employ waste fiber, either wholly or in part without preliminary processing are not included (e.g., furniture stuffing, mattress felts, punched or needled felts for carpet & rug underlays, pressed wool felts and some nonwoven fabrics).

Second, for certain end uses which utilize both new fiber and the fiber derived from processed waste, the quantities shown have been calculated so as to exclude the waste component inasmuch as possible.

And third, waste which has been processed into usable spinnable fiber is included in the quantities shown for Blankets (Item 46), Carpets & Rugs (Item 50) and a number of other applications. It is important to note that in products such as these, fiber derived from waste by preliminary processing, especially for the manufactured fiber quantities, is a significant and measured part of the total end use.

METHODOLOGY

COTTON: The cotton series presented in earlier issues were mainly those of the National Cotton Council as published in its annual survey ***"Cotton Counts Its Customers"*** (1988 and earlier editions).

With this issue we are changing the methodology in using the bale opening figure from the Bureau of the Census Report M22P plus imports. ***Cotton Counts Its Customers*** is used as an indicator for the end use distribution.

WOOL: The Wool Bureau and government data are employed.

Blends of wool with other fibers are common in many end uses, but little information is available on the fiber composition of these blends. Thus, relatively reliable measures are available mainly on the wool quantities used in Home Textiles (blankets and carpets) and such Apparel items as Craft Yarns.

These quantities were deducted from the Available Supply in Table 3, page 205, and residual quantities were then attributed to Apparel Usage in individual apparel items from the years 1984 - 1988. This was calculated by correlating the data of Census reports MA-23A and MQ-22T on Apparel and Broad Woven Goods, respectively.

MANUFACTURED FIBERS: The manufactured fiber data are based on producers' domestic shipments plus imports of fiber, yarn and semimanufactured products.

Continued on Page 206

TABLE 2:
U.S. END USE SUMMARY EXCLUDING GLASS FIBER
MILLION POUNDS & *PERCENT*

END USE & YEAR	GRAND TOTAL			COTTON			WOOL			MANUFACTURED FIBERS			MANUFACTURED FIBER DETAIL									
													ARTIFICIAL (CELL.)					SYNTHETIC (NONCELL.)				
													TOTAL					TOTAL				
	LBS	%ᵃ	%ᵇ	LBS	%ᵃ	%ᵇ	LBS	%ᵃ	%ᵇ	LBS	%ᵃ	%ᵇ	LBS	%ᵃ	%ᵇ	YARN LBS	STAPLE LBS	LBS	%ᵃ	%ᵇ	YARN LBS	STAPLE LBS
APPAREL																						
1984	4390	100	38.8	1719	39.2	56.2	171	3.9	74.0	2500	56.9	31.2	239	5.4	41.6	153	86	2261	51.5	30.4	1117	1144
1985	4483	100	38.2	1966	43.8	58.3	142	3.2	72.4	2375	53.0	29.1	208	4.6	38.3	141	67	2167	48.3	28.4	1086	1081
1986	5131	100	39.7	2343	45.7	59.5	158	3.0	73.5	2630	51.3	30.0	250	4.9	41.3	151	99	2380	46.4	29.2	1004	1376
1987	5336	100	38.9	2541	47.7	58.7	157	2.9	69.5	2638	49.4	28.8	236	4.4	40.2	123	113	2402	45.0	28.0	979	1423
1988	5033	100	37.4	2384	47.4	60.2	142	2.8	67.3	2507	49.8	27.0	276	5.5	45.0	143	133	2231	44.3	25.7	874	1357
HOME TEXTILES																						
1984	1849	100	16.3	863	46.7	28.2	21	1.1	9.1	965	52.2	12.0	132	7.1	23.0	26	106	833	45.1	11.2	259	574
1985	1895	100	16.1	911	48.1	27.0	18	0.9	9.2	966	51.0	11.8	126	6.6	23.2	19	107	840	44.4	11.0	293	547
1986	2000	100	15.5	1082	54.1	27.5	18	0.9	8.4	900	45.0	10.3	131	6.5	21.6	17	114	769	38.5	9.4	245	524
1987	2193	100	16.0	1263	57.6	29.2	18	0.8	8.0	912	41.6	9.9	139	6.3	23.7	22	117	773	35.3	9.0	249	524
1988	2082	100	15.5	1113	53.4	28.1	16	0.8	7.6	953	45.8	10.3	130	6.2	21.2	21	109	823	39.6	9.5	270	553
FLOOR COVERINGS																						
1984	2287	100	20.2	14	0.6	0.5	14	0.6	6.1	2259	98.8	28.2	1	0	0.2	0	1	2258	98.8	30.3	1162	1096
1985	2565	100	21.8	15	0.6	0.4	12	0.5	6.1	2538	98.9	31.1	1	0	0.2	0	1	2537	98.9	33.3	1399	1138
1986	2799	100	21.7	15	0.5	0.4	17	0.6	7.9	2767	98.9	31.6	2	0.1	0.3	0	2	2765	98.8	33.9	1535	1230
1987	2975	100	21.7	18	0.6	0.4	23	0.8	10.2	2934	98.6	32.0	1	0	0.2	0	1	2933	98.6	34.2	1614	1319
1988	3060	100	22.7	15	0.5	0.4	22	0.7	10.4	3023	98.8	32.6	1	0	0.2	0	1	3022	98.8	34.8	1653	1369
INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS																						
1984	2505	100	22.1	376	15.0	12.3	21	0.8	9.1	2108	84.2	26.3	187	7.5	32.6	28	159	1921	76.7	25.8	998	923
1985	2468	100	21.0	375	15.2	11.1	13	0.5	6.6	2080	84.3	25.5	192	7.8	35.4	30	162	1888	76.5	24.8	969	919
1986	2608	100	20.2	357	13.7	9.1	13	0.5	6.0	2238	85.8	25.5	204	7.8	33.7	28	176	2034	78.0	24.9	1107	927
1987	2810	100	20.5	378	13.5	8.7	13	0.5	5.8	2419	86.0	26.4	189	6.6	32.2	22	167	2230	79.4	26.0	1185	1045
1988	2827	100	21.0	326	11.6	8.2	12	0.4	5.7	2489	88.0	26.8	181	6.4	29.5	21	160	2308	81.6	26.6	1238	1070
EXPORTS OF DOMESTIC PRODUCTS																						
1984	279	100	2.6	85	30.5	2.8	4	1.4	1.7	190	68.1	2.3	15	5.4	2.6	9	6	175	62.7	2.3	73	102
1985	329	100	2.8	108	32.8	3.2	11	3.3	5.7	210	63.9	2.5	16	4.9	2.9	9	7	194	59.0	2.5	76	118
1986	384	100	3.0	143	37.3	3.5	9	2.3	4.2	232	60.4	2.6	19	4.9	3.1	11	8	213	55.5	2.6	88	125
1987	406	100	2.8	127	31.3	3.0	15	3.7	6.5	264	65.0	2.9	22	5.4	3.7	13	9	242	59.6	2.8	100	142
1988	456	100	3.2	124	27.2	3.1	19	4.2	9.0	313	68.6	3.2	25	5.5	4.1	15	10	288	63.1	3.3	119	169
TOTAL END USE CONSUMPTION																						
1984	11310	100	100	3057	27.0	100	231	2.0	100	8022	71.0	100	574	5.1	100	216	358	7448	65.9	100	3609	3839
1985	11740	100	100	3375	28.7	100	196	1.7	100	8169	69.6	100	543	4.6	100	199	344	7626	65.0	100	3823	3803
1986	12922	100	100	3940	30.5	100	215	1.7	100	8767	67.8	100	606	4.7	100	207	399	8161	63.2	100	3979	4182
1987	13720	100	100	4327	31.5	100	226	1.6	100	9167	66.7	100	587	4.2	100	180	407	8580	62.5	100	4127	4453
1988	13458	100	100	3962	29.4	100	211	1.6	100	9285	69.0	100	613	4.6	100	200	413	8672	64.4	100	4154	4518

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

a. The percentages in these columns show the share of each fiber in the specified end use each year. They add horizontally to the 100% shown in each of the Grand Total columns.

b. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add vertically to the 100% shown under Total End Use Consumption.

TABLE 3:
END USE CONSUMPTION INCLUDING SEMIMANUFACTURED IMPORTS[e]
MILLION POUNDS

	MANUFACTURED FIBERS								COTTON			WOOL					
	MILL CONSUMPTION																
	ARTIFICAL (CELLULOSIC)			SYNTHETIC (NONCELLULOSIC)													
YEAR	YARN	STAPLE [b]	TOTAL	YARN	STAPLE [b]	TOTAL	IMPORTS [c]	TOTAL	MILL CONS. [a]	IMPORTS [c]	TOTAL	MILL CONS. [a]	REPRO-CESSED & REUSED [d]	COTTON SYSTEM [d]	IMPORTS [c]	TOTAL	AVAIL-ABLE SUPPLY
1984	228.3	359.6	587.9	3398.6	3803.0	7201.6	241.4	8030.9	2668.2	505.4	3173.6	163.2	7.6	5.5	55.3	231.6	11436.1
1985	201.0	344.6	545.6	3663.8	3826.1	7489.9	203.8	8239.3	2796.0	477.5	3273.5	134.7	5.3	4.2	50.5	194.7	11707.5
1986	209.1	399.2	608.3	3747.3	4098.3	7845.6	341.3	8795.2	3301.7	638.8	3940.5	164.5	9.5	8.5	39.6	222.1	12957.8
1987	179.6	406.0	585.6	3927.1	4349.0	8276.1	303.6	9165.3	3736.5	784.4	4527.3	167.6	7.9	6.9	44.1	226.5	13919.1
1988	200.2	412.7	612.9	4030.2	4368.4	8398.6	273.3	9284.8	3401.0	561.9	3962.9	156.1	3.9	6.8	43.0	209.8	13457.5

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

[a] Mill Consumption is taken from page 71 of the April 1989 ***Fiber Organon***, plus subsequent revisions.

[b] Manufactured staple includes waste.

[c] Imports are taken from page 54 of the March 1989 ***Textile Organon***.

[d] These volumes of reprocessed and reused wool, as well as wool used on the cotton spinning system, are not included in the mill consumption series for wool.

[e] Semimanufactured imports are taken from page 206 of this issue.

TABLE 4:
COTTON LINTER PRODUCTION[a]
FOR THE SEASONS BEGINNING AUGUST 1ST
MILLION POUNDS

	1983	1984	1985	1986	1987	1988
FELTING -	139.7	102.3	138.7	131.7	106.5	137.2
OF WHICH:						
BEDDING, MATTRESSES & BOX SPRING FELTS	76.1	55.6	75.6	71.8	58.0	74.8
UPHOLSTERED FURNITURE PRIMARILY SOFAS & CHAIRS	52.0	38.1	51.6	49.0	39.6	51.0
AUTOMOTIVE, PRIMARILY PASSENGER CARS & TRUCKS	11.6	8.6	11.5	10.9	8.9	11.4
OTHER, INCLUDING PAPER, ABSORBENT COTTON, ECT.	25.3	18.5	25.1	23.8	19.2	24.8
TOTAL LINTERS	165.0	120.8	163.8	155.5	125.7	162.0

Source: Department of Commerce, Bureau of the Census, Report M20J.

[a] 1st cut.

TABLE 5:
MANUFACTURED FIBER & SEMIMANUFACTURED IMPORTS
MILLION POUNDS

	1984	1985	1986	1987	1988
ARTIFICIAL (CELLULOSIC) FIBERS					
YARN	10.0	13.9	17.0	12.8	17.6
STAPLE	17.0	12.3	17.4	13.8	20.4
WASTE	0.5	0.5	0.1	0.1	+
SUBTOTAL ABOVE	**27.5**	**26.7**	**34.5**	**26.7**	**38.0**
SYNTHETIC (NONCELLULOSIC) FIBERS					
YARN - SINGLES					
NYLON - TEXTURED	18.0	32.4	36.7	28.8	20.4
- OTHER	30.2	18.4	22.5	22.8	17.8
POLYESTER - TEXTURED	10.8	16.6	14.6	15.6	15.1
- OTHER	15.7	16.7	22.5	19.4	21.6
OTHER - TEXTURED	8.9	14.7	20.5	24.1	25.2
- OTHER	2.5	2.5	5.1	6.8	8.2
MONOFILAMENTS	2.9	2.1	2.7	3.8	4.8
STRIPS, OVER $1/LB	1.0	1.2	1.5	2.6	3.2
SUBTOTAL ABOVE	**90.0**	**104.6**	**126.1**	**123.9**	**116.3**
STAPLE[a] - NYLON	61.4	68.1	90.5	71.2	62.2
- POLYESTER	30.0	31.8	43.1	73.9	77.6
- ACRYLIC	20.4	25.1	30.5	28.7	34.8
- OLEFIN	2.2	5.7	1.9	0.5	2.1
- OTHER	17.1	28.7	16.8	14.7	19.5
SUBTOTAL ABOVE	**131.1**	**159.4**	**182.8**	**189.0**	**196.2**
WASTE, NOT ADVANCED - NYLON	31.2	27.2	22.4	26.9	22.5
- POLYESTER	8.0	7.1	6.3	9.2	10.1
- ACRYLIC	0.3	0.3	0.3	0.3	0.2
OTHER	4.0	2.1	8.4	4.7	2.6
NOILS & GARNETTED FIBERS	0.4	0.2	0.2	0.2	0.1
OTHER WASTE, ADVANCED	6.7	3.8	2.7	5.7	5.0
SUBTOTAL ABOVE	**50.6**	**40.7**	**40.3**	**47.0**	**40.5**
TOTAL FIBER ABOVE[b]	**299.2**	**331.4**	**383.7**	**386.6**	**391.0**
SEMIMANUFACTURES					
SLIVER, TOPS & ROVING	4.7	2.1	3.4	5.8	4.1
YARNS, THROWN OR PLIED	15.4	23.7	23.6	13.7	12.3
SPUN YARNS	46.3	45.5	64.5	63.5	43.4
SEWING THREAD & HANDWORK YARN	5.7	9.7	4.7	8.9	7.8
WOVEN FABRICS	154.9	186.2	207.2	182.5	179.2
NARROW FABRICS	12.4	18.4	25.3	14.6	14.9
KNIT FABRIC	3.0	9.7	12.5	14.6	11.5
SUBTOTAL ABOVE	**242.4**	**295.3**	**341.2**	**303.6**	**273.2**
GLASS FIBER	23.1	34.7	23.7	29.4	26.2
TOTAL SEMIMANUFACTURES ABOVE[c]	**265.5**	**330.0**	**364.9**	**333.0**	**299.4**
GRAND TOTAL ABOVE	**564.7**	**661.4**	**748.6**	**719.6**	**690.4**

a. Includes grouped filaments

b. **SOURCE:** U.S. Bureau of the Census

c. **SOURCE:** U.S. Department of Agriculture, ***Cotton and Wool Outlook Situation.***

For imports of fiber, the data are taken from the monthly summaries in each ***Fiber Organon.*** A listing of the commodity numbers used may be found on page 27 of the February 1989 issue under the import table

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Continued From Page 203

UNIT PRODUCTION VERSUS FIBER CONSUMED

This survey shows the quantity of raw fiber which had to be put into process in order to manufacture end products. No direct comparison can be, or should be, made between the quantities of the fibers consumed, as recorded in the survey, and the finished or "shelf" weight of those end products by fiber. Comparison should be avoided because:

1. The variation in the weight per square yard of fabric made of the different fibers for the same end use. According to recent data collected by the U.S. Census Bureau, cotton fabrics averaged 7.0 square yards per pound and wool 0.6 square yards per pound. But for manufactured fiber, 100% filament yarn fabrics averaged 4.4 square yards per pound and spun yarn fabrics averaged 3.3 square yards per pound.

2. From these data, it is apparent that the "covering power" of fabrics made from the various fibers varies a great deal. Hence, a simple comparison of quantities of fibers consumed would be misleading both because of the differences in fibers concerning covering power and the difference in typical fabric weights of products made of the various fibers, as described.

Continued On Page 210

TABLE 6:
EXPORTS OF SEMIMANUFACTURED PRODUCTS [a]
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE	YARN	STAPLE		
TOTAL EXPORTS OF SEMIMANUFACTURED PRODUCTS								
1984	r279.5	190.9	9.4	6.1	73.0	102.4	r84.5	r4.1
1985	r328.6	209.7	9.6	6.6	75.8	117.7	r108.0	r10.9
1986	383.7	232.1	11.0	7.6	88.0	125.5	143.0	8.6
1987	r405.6	263.8	12.5	8.6	100.3	142.4	126.9	r14.9
1988	455.0	312.6	14.7	10.3	118.8	168.8	123.8	18.6
80 YARN, THREAD, ETC[c]								
1984	r61.4	38.5	e	2.6	e	35.7	r20.0	r2.7
1985	r86.0	50.9	e	2.7	e	48.4	25.8	r9.3
1986	70.8	47.9	e	2.5	e	45.4	16.6	6.3
1987	86.2	53.9	e	2.8	e	51.1	19.6	12.7
1988	110.2	66.5	e	3.5	e	63.0	27.2	16.5
81 WOVEN & KNIT FABRIC[c]								
1984	r218.5	152.6	9.4	3.5	73.0	66.7	r64.5	r1.4
1985	r242.4	158.6	9.6	3.9	75.8	69.3	r82.2	1.6
1986	312.9	184.2	11.0	5.1	88.0	80.1	126.4	2.3
1987	r319.4	209.9	12.5	5.8	100.3	91.3	107.3	r2.2
1988	344.8	246.1	14.7	6.8	118.8	105.8	96.6	2.1

SOURCE: U.S. Department of Agriculture, ***Cotton & Wool Outlook Situation.***

For all lettered and general footnotes to this table, see page 214

This is a non-add section since the volumes are included in Tables 2 and 7 through 10.

NOTES FOR EXPORT ITEMS ABOVE

For all lettered and general footnotes to this table, see page 214.

These exports do not duplicate the end use quantities that are reported in Items 1 through 79. Apparel items are not tabulated here because they already have been counted as the fabric was cut, i.e., they are counted only once regardless of the subsequent place of sale or consumer use.

Similarly, fabrics for blankets, sheets, upholstery & draperies, carpets, etc., are excluded since they are measured at the mill level as an end use.

The exports of manufactured fiber filament yarn+monofilaments, staple, tow, etc., are not tabulated in this section because these products are not a factor in U.S. mill consumption.

On the other hand, the two export items are recorded because, while they were processed or fabricated in U.S. mills, they were exported before reaching the point at which end use is measured.

80. YARN, THREAD, ETC:
Consists of sliver, tops & roving; plied and spun yarn; sewing thread and handwork yarns; cotton twine and cordage; and advanced wool.

81. WOVEN & KNIT FABRIC:
Consists of broad & narrow woven fabrics and knit cloth, except that cotton also includes table damask and tire cord & fabric.

TABLE 7:
FIBER CONSUMED IN U.S. APPAREL PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE	YARN	STAPLE		
TOTAL APPAREL								
1984	4389.2	2499.9	153.5	86.1	1116.6	1143.7	1718.6	170.7
1985	r4482.8	2374.7	140.7	66.9	1086.5	1080.6	r1966.4	141.7
1986	r5131.1	r2629.8	150.8	98.9	r1003.7	r1376.4	r2342.7	158.6
1987	r5335.5	r2637.5	r123.4	112.8	r978.8	r1422.5	r2541.3	156.7
1988	5033.2	2507.3	143.5	133.0	873.5	1357.3	2384.1	141.8
40 SHEER HOSIERY (W)*								
1984	86.0	82.6	- -	- -	82.6	- -	3.4	- -
1985	86.4	83.0	- -	- -	83.0	- -	3.4	- -
1986	r91.0	87.2	- -	- -	87.2	- -	r3.8	- -
1987	r95.5	91.3	- -	- -	91.3	- -	r4.2	- -
1988	98.1	93.8	- -	- -	93.8	- -	4.3	- -
19,41 ANKLETS & SOCKS (MW)*								
1984	190.5	131.5	- -	0.5	59.5	71.5	55.6	3.4
1985	189.3	122.7	- -	0.4	56.9	65.4	63.9	2.7
1986	r210.8	127.7	c	0.4	57.3	70.0	r79.3	3.8
1987	r210.1	112.8	c	0.4	59.0	53.4	r93.5	3.8
1988	203.1	106.0	0.1	0.3	58.6	47.0	93.7	3.4
8,29 SWEATERS & RELATED ACCESSORIES								
1984	167.4	113.7	- -	1.2	0.5	112.0	33.7	20.0
1985	186.9	110.3	- -	1.2	0.6	108.5	59.8	16.8
1986	r274.9	r164.0	- -	1.5	0.4	r162.1	r91.9	19.0
1987	r259.4	r155.6	- -	0.3	0.3	r155.0	r84.5	19.3
1988	223.8	140.9	0.1	0.1	0.4	140.3	65.5	17.4
57 CRAFT & HANDWORK YARNS*								
1984	90.9	82.1	- -	0.8	- -	81.3	3.5	5.3
1985	92.1	85.1	- -	0.1	0.3	84.7	2.7	4.3
1986	r91.2	82.4	1.2	0.2	c	81.0	r4.8	4.0
1987	r80.9	72.0	0.9	0.2	c	70.9	r4.9	4.0
1988	75.6	67.6	1.1	0.2	- -	66.3	4.3	3.7
15-18 UNDERWEAR & NIGHTWEAR (M)*								
1984	268.9	90.5	- -	- -	9.9	80.6	177.4	1.0
1985	264.0	83.6	- -	- -	8.0	75.6	179.6	0.8
1986	r320.8	108.8	- -	- -	12.5	96.3	r211.8	0.2
1987	r343.3	100.0	- -	- -	10.5	89.5	r243.1	0.2
1988	312.4	84.8	- -	- -	8.7	76.1	227.4	0.2
35-39 UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS (W)*								
1984	178.0	130.7	8.6	- -	99.9	22.2	46.3	1.0
1985	189.9	136.7	6.8	- -	105.2	24.7	52.4	0.8
1986	r194.0	128.9	8.0	- -	94.8	26.1	r64.9	0.2
1987	r203.5	123.7	1.9	- -	92.0	29.8	r79.6	0.2
1988	195.2	125.2	2.9	- -	88.3	34.0	69.8	0.2
10,31 ROBES & LOUNGEWEAR (MW)*								
1984	99.6	79.6	41.5	- -	23.7	14.4	17.1	2.9
1985	84.9	70.6	37.2	- -	20.3	13.1	12.0	2.3
1986	r93.1	73.8	31.2	- -	23.5	19.1	r17.0	2.3
1987	r83.6	61.7	19.7	- -	22.9	19.1	r19.6	2.3
1988	82.8	63.9	19.3	- -	27.9	16.7	16.6	2.3

TABLE 7:
FIBER CONSUMED IN U.S. APPAREL PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a] (CONTINUED)
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE	YARN	STAPLE		
54a HIGH PILE FABRICS								
1984	61.4	61.4	- -	0.3	9.7	51.4	- -	- -
1985	57.1	57.1	- -	- -	6.4	50.7	- -	- -
1986	59.0	59.0	- -	- -	10.6	48.4	- -	- -
1987	67.9	67.9	- -	2.0	15.4	50.5	- -	- -
1988	55.2	55.2	- -	- -	8.3	46.9	- -	- -
*54b FABRICS FOR LINING**								
1984	153.7	109.6	79.8	1.9	21.7	6.2	40.9	3.2
1985	146.2	103.5	74.2	1.5	17.6	10.2	40.0	2.7
1986	r179.3	133.9	98.3	3.6	18.5	13.5	r42.6	2.8
1987	r180.9	136.1	90.4	5.8	23.6	16.3	r41.9	2.9
1988	175.5	139.1	104.1	6.5	18.3	10.2	33.7	2.7
*43 APPAREL LACE (W)**								
1984	5.5	4.0	- -	- -	4.0	- -	1.5	- -
1985	6.1	4.6	- -	- -	4.6	- -	1.5	- -
1986	4.3	2.8	- -	- -	2.8	- -	1.5	- -
1987	r3.9	r2.4	r0.3	- -	r2.1	- -	1.5	- -
1988	4.6	3.1	- -	- -	3.1	- -	1.5	- -
*56a NARROW FABRICS**								
1984	47.9	21.8	0.7	- -	19.0	2.1	26.1	- -
1985	46.9	23.3	1.5	- -	20.1	1.7	23.6	- -
1986	59.9	35.1	2.1	- -	30.1	2.9	24.8	- -
1987	77.7	51.6	2.2	- -	46.4	3.0	26.1	- -
1988	78.5	51.7	2.6	- -	46.4	2.7	26.8	- -
*TOPWEIGHT FABRICS**								
1984	1032.5	547.6	18.4	45.7	178.0	305.5	479.7	5.2
1985	r1040.4	496.2	16.5	35.7	173.0	271.0	r540.1	4.1
1986	r1206.1	r576.2	7.5	52.1	r148.2	r368.4	r626.3	3.6
1987	r1397.1	r718.7	5.6	49.3	r127.5	r536.3	r674.7	3.7
1988	1455.8	727.5	5.8	58.9	130.1	532.7	724.9	3.4
*BOTTOMWEIGHT FABRICS**								
1984	1959.3	1037.8	4.5	35.7	605.1	392.5	792.8	128.7
1985	r2046.8	990.8	4.5	27.8	587.5	371.0	r948.8	107.2
1986	r2290.9	r1041.4	2.5	40.6	r514.4	r483.9	r1126.8	122.7
1987	r2272.0	r934.9	2.4	53.3	r484.5	r394.7	r1216.8	120.3
1988	2006.8	830.3	2.5	63.5	386.0	378.3	1068.0	108.5
*OTHER APPAREL & ACCESSORIES (MW)**								
1984	47.6	7.0	- -	- -	3.0	4.0	40.6	c
1985	45.8	7.2	- -	0.2	3.0	4.0	38.6	c
1986	r55.8	8.6	- -	0.5	3.4	4.7	r47.2	c
1987	r59.7	8.8	- -	1.5	3.3	4.0	r50.9	c
1988	65.8	18.2	5.0	3.5	3.6	6.1	47.6	c

Most of the above data are taken from the Fiber Economics Bureau's publication ***Manufactured Fiber Handbook.***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

For all lettered and general footnotes to this table and the Home Textiles, Floor Covering and Industrial & Other Consumer-Type Products tables, please see page 214.

TABLE 8:
FIBER CONSUMED IN U.S. HOME TEXTILES PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE EXCLUDING FLOOR COVERINGS[a]
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS[b]						COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)				
			YARN	STAPLE	YARN	STAPLE			
TOTAL HOME TEXTILES									
1984	1849.7	965.4	26.5	106.1	258.6	574.2		863.0	21.3
1985	1895.4	966.4	18.5	107.1	293.4	547.4		911.3	17.7
1986	r1999.7	900.0	16.8	113.9	244.9	524.4		r1082.1	17.6
1987	r2193.1	r912.3	21.8	117.2	r248.8	r524.5		r1262.8	18.0
1988	2082.5	952.8	20.8	108.8	270.6	552.6		1113.4	16.3
45 BEDSREADS & QUILTS*									
1984	134.1	81.2	4.0	6.0	15.2	56.0		52.9	- -
1985	134.8	77.2	c	6.0	17.2	54.0		57.6	- -
1986	r146.6	80.0	0.2	6.3	19.1	54.6		r66.6	- -
1987	r177.1	93.8	- -	3.3	20.5	70.0		r83.3	- -
1988	188.4	109.7	0.2	- -	29.0	80.7		78.7	- -
46 BLANKETS & BLANKETING*									
1984	66.8	50.9	- -	0.2	1.0	49.7		10.9	5.0
1985	74.8	54.6	- -	0.2	- -	54.4		16.1	4.1
1986	r77.0	51.1	- -	0.2	- -	50.9		r21.6	4.3
1987	r81.3	51.8	- -	0.2	- -	51.6		r25.4	4.1
1988	72.3	42.5	- -	0.2	- -	42.3		26.1	3.7
47 SHEETS & OTHER BEDDING*									
1984	516.3	300.0	0.5	15.0	75.7	208.8		216.3	-
1985	493.4	269.3	1.5	12.5	77.7	177.6		224.1	- -
1986	r520.3	254.8	1.9	12.7	70.1	170.1		r265.5	- -
1987	r528.3	235.2	1.5	7.2	59.7	166.8		r293.1	- -
1988	506.5	239.0	0.4	6.2	60.8	172.0		267.5	- -
48 TOWELS & TOWELING*									
1984	405.9	30.3	- -	0.7	0.6	29.0		375.6	- -
1985	414.5	22.3	- -	0.9	0.2	21.2		392.2	- -
1986	r500.6	31.9	- -	0.5	0.2	31.2		r468.7	- -
1987	r571.1	34.2	- -	0.1	0.5	33.6		r536.9	- -
1988	467.4	36.7	- -	0.2	0.5	36.0		430.7	- -
56b NARROW FABRICS*									
1984	4.3	0.5	- -	- -	c	0.5		3.8	- -
1985	4.8	1.2	- -	- -	1.2	c		3.6	- -
1986	4.1	0.3	- -	- -	0.2	0.1		3.8	- -
1987	6.2	2.2	- -	- -	1.7	0.5		4.0	- -
1988	6.0	2.0	- -	- -	1.8	0.2		4.0	- -

Continued From Page 206

LIMITATIONS OF THE SURVEY RESULTS

The statistical results of this end use survey should be considered as approximations. These data are best used as a means of comparison to measure the long-term trends among the fibers.

Please note that the data are given in millions of pounds and include one decimal place to show hundred thousand pounds. This device is employed not to show great accuracy, but rather to take into account some small quantities of fibers in such end uses as Apparel Lace and still allow the compilation to add arithmetically.

TABLE 8:
FIBER CONSUMED IN U.S. HOME TEXTILES PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE EXCLUDING FLOOR COVERINGS [a] (CONTINUED)
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE	YARN	STAPLE		
51 CURTAINS & DRAPERY *								
1984	247.4	179.7	13.4	44.3	47.1	74.9	67.7	--
1985	242.4	172.5	14.4	44.4	43.7	70.0	69.9	--
1986	r277.8	190.2	14.3	48.9	45.2	81.8	r87.6	--
1987	r277.0	163.1	19.7	52.2	42.5	48.7	r113.9	--
1988	264.7	161.9	19.9	49.9	50.4	61.6	102.8	--
*52 UPHOLSTERY**								
1984	374.3	248.3	5.9	38.9	83.3	120.2	109.7	16.3
1985	400.8	261.3	0.4	36.7	104.6	119.6	125.9	13.6
1986	r390.6	229.3	0.4	44.3	92.0	92.6	r148.0	13.3
1987	r469.8	r269.2	0.1	53.2	r93.0	122.9	r186.7	13.9
1988	458.3	259.8	--	48.7	86.3	124.8	185.9	12.6
*OTHER HOME TEXTILES**								
1984	100.6	74.5	2.7	1.0	35.7	35.1	26.1	--
1985	129.9	108.0	2.2	6.4	48.8	50.6	21.9	--
1986	r82.5	62.2	--	1.0	18.1	43.1	r20.3	--
1987	r82.3	r62.8	0.5	1.0	r30.9	r30.4	r19.5	--
1988	98.1	80.4	0.3	3.6	41.8	35.0	17.7	--

TABLE 9:
FIBER CONSUMED IN U.S. FLOOR COVERINGS PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE	YARN	STAPLE		
*50 TOTAL CARPETS & RUGS**								
1984	2287.1	2258.4	--	0.7	1162.1	1095.6	14.3	14.4
1985	2564.7	2538.0	--	1.3	1398.5	1138.2	14.8	11.9
1986	r2799.7	2767.0	--	1.5	1535.2	1230.3	r15.3	17.4
1987	r2974.7	2933.6	--	0.8	1613.7	1319.1	r17.6	23.5
1988	3059.6	3022.6		0.9	1652.6	1369.1	15.4	21.6
*50a FACE YARNS**								
1984	1976.6	1954.5	--	0.7	934.3	1019.5	7.7	14.4
1985	2134.3	2112.2	--	1.3	1043.9	1067.0	10.2	11.9
1986	r2305.0	2277.9	--	1.5	1131.1	1145.3	r9.7	17.4
1987	r2464.9	2429.3	--	0.8	1188.4	1240.1	r12.1	23.5
1988	2535.5	2503.4	--	0.9	1225.6	1276.9	10.5	21.6
*50b BACKING**								
1984	310.5	303.9	--	--	227.8	76.1	6.6	--
1985	430.4	425.8	--	--	354.6	71.2	4.6	--
1986	r494.7	489.1	--	--	404.1	85.0	r5.6	--
1987	r509.8	504.3	--	--	425.3	79.0	r5.5	--
1988	524.1	519.2	--	--	427.0	92.2	4.9	--

FOOTNOTES FOR BOTH TABLE 8 & TABLE 9:

Most of the above data are taken from the Fiber Economic Bureau's publication ***Manufactured Fiber Handbook.***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

For all lettered and general footnotes to this table and the Apparel and Industrial & Other Consumer-Type Products tables, please see page 214.

TABLE 10:
FIBER CONSUMED IN U.S. INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]						COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)				
			YARN	STAPLE	YARN	STAPLE			
TOTAL INDUSTRIAL & OTHER CONSUMER									
1984	2505.3	2108.2	27.9	159.4	998.2	922.7		376.1	21.0
1985	2468.3	2080.2	30.6	161.9	968.6	919.1		375.0	13.1
1986	r2608.0	r2237.7	28.1	175.9	1107.0	926.7		r356.9	13.4
1987	r2810.3	r2418.5	22.0	166.6	r1185.2	r1044.7		r378.4	13.4
1988	2827.4	2489.4	21.0	160.0	1238.6	1069.8		326.3	11.7
65 TIRES*									
1984	368.5	364.8	14.0	--	350.8	--		3.7	--
1985	314.7	311.4	9.8	--	301.6	--		3.3	--
1986	300.1	297.6	9.0	--	288.6	--		2.5	--
1987	316.6	313.9	8.1	--	305.8	--		2.7	--
1988	312.1	309.9	5.9	--	304.0	--		2.2	--
66 HOSE*									
1984	33.0	30.1	8.0	--	19.5	2.6		2.9	--
1985	29.3	27.3	11.8	--	15.1	0.4		2.0	--
1986	r30.4	27.6	11.0	--	15.9	0.7		r2.8	--
1987	r30.2	27.5	9.4	--	17.2	0.9		r2.7	--
1988	33.5	31.3	8.4	--	17.7	5.2		2.2	--
67 BELTING*									
1984	60.1	50.7	3.0	--	31.4	16.3		9.4	--
1985	43.5	32.7	2.5	--	24.3	5.9		10.8	--
1986	41.7	31.1	3.1	--	23.3	4.7		10.6	--
1987	r46.7	37.0	2.5	--	26.6	7.9		r9.7	--
1988	49.4	41.6	1.6	--	24.3	15.7		7.8	--
61 MEDICAL, SURGICAL & SANITARY*									
1984	r401.5	r314.5	--	116.1	54.0	r144.4		87.0	--
1985	r383.6	r303.5	--	105.9	58.7	r138.9		80.1	--
1986	r464.4	r377.8	--	123.4	94.4	r160.0		r86.6	--
1987	r457.7	r369.1	--	75.5	102.4	r191.2		r88.6	--
1988	462.0	382.1	--	85.1	117.2	179.8		79.9	--
79b UNALLOCATED NONWOVENS*									
1984	r116.3	r116.3	--	3.0	--	r113.3		--	--
1985	r140.2	r140.2	--	12.9	--	r127.3		--	--
1986	r149.5	r149.5	--	14.9	--	r134.6		--	--
1987	r223.6	r223.6	--	50.5	--	r173.1		--	--
1988	257.9	257.9	--	46.7	--	211.2		--	--
79a FIBERFILL, STUFFING & FLOCK*									
1984	321.4	321.4	--	4.1	--	317.3		--	--
1985	354.9	354.9	--	6.5	--	348.4		--	--
1986	368.7	368.7	--	3.1	--	365.6		--	--
1987	403.8	403.8	--	0.4	--	403.4		--	--
1988	420.1	420.1	--	1.7	--	418.4		--	--
70 FELTS*									
1984	34.7	13.5	--	3.5	4.0	6.0		1.2	20.0
1985	23.7	10.6	--	2.0	3.9	4.7		1.0	12.1
1986	25.0	11.7	--	2.2	4.3	5.2		1.0	12.3
1987	20.4	7.1	--	3.2	3.9	8.1		1.0	12.3
1988	17.1	5.4	--	1.6	3.8	8.9		1.0	10.7
71 FILTRATION*									
1984	34.3	29.5	--	3.3	4.8	21.4		4.8	--
1985	37.4	32.8	--	3.2	5.2	24.4		4.6	--
1986	r38.4	32.7	--	4.6	4.1	24.0		r5.7	--
1987	r35.3	28.3	--	8.3	3.5	16.5		r7.0	--
1988	34.1	30.4	--	4.1	3.6	22.7		r3.7	--

For all lettered and general footnotes to this table and the Apparel, Home Textiles and Floor Covering tables, please see page 214.

TABLE 10:

FIBER CONSUMED IN U.S. INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a](CONTINUED)

MILLION POUNDS

		MANUFACTURED FIBERS [b]						
			ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
END USE & YEAR	TOTAL FIBER	TOTAL	YARN	STAPLE	YARN	STAPLE	COTTON	WOOL
*73 ROPE, CORDAGE, FISHLINE, ETC**								
1984	186.5	170.9	1.0	0.3	157.1	12.5	15.6	- -
1985	184.3	168.9	0.6	0.4	157.3	10.6	15.4	- -
1986	r189.8	175.1	0.4	1.7	155.7	17.3	r14.7	- -
1987	r183.7	167.9	0.9	0.5	158.0	8.5	r15.8	- -
1988	172.7	159.0	0.6	0.1	153.9	4.4	13.7	- -
*72 SEWING THREAD**								
1984	123.6	72.2	c	5.2	51.1	15.9	51.4	- -
1985	r127.3	r84.5	0.4	6.7	60.4	17.0	42.8	- -
1986	r129.6	84.6	0.4	3.9	63.5	16.8	r45.0	- -
1987	r146.1	r94.9	0.4	4.1	69.4	21.0	r51.2	- -
1988	156.8	113.5	0.3	1.9	91.0	20.3	43.3	- -
*76 PAPER & TAPE REINFORCING**								
1984	11.1	7.4	0.3	0.4	2.7	4.0	3.7	- -
1985	6.8	3.9	1.8	0.4	1.7	- -	2.9	- -
1986	r5.5	3.4	0.9	0.1	2.4	c	r2.1	- -
1987	r6.8	4.7	0.7	0.7	2.5	0.8	r2.1	- -
1988	6.6	4.5	0.4	- -	1.2	2.9	2.1	- -
*69,77 ELECTRICAL & REINFORCED PLASTICS**								
1984	30.2	5.2	0.2	- -	5.0	c	25.0	- -
1985	31.3	6.3	0.1	- -	6.2	- -	25.0	- -
1986	29.1	4.1	c	- -	3.9	0.2	25.0	- -
1987	30.4	5.4	c	0.4	4.2	0.8	25.0	- -
1988	31.6	6.6	c	1.3	4.2	1.1	25.0	- -
*75 COATED & PROTECTIVE FABRICS**								
1984	251.2	194.2	- -	10.5	55.0	128.7	57.0	- -
1985	193.0	135.6	- -	10.2	43.9	81.5	57.4	- -
1986	r197.2	136.2	- -	11.6	47.0	77.6	r61.0	- -
1987	r184.9	r119.5	- -	3.8	57.2	r58.5	r65.4	- -
1988	161.7	105.7	- -	3.0	56.1	46.6	56.0	- -
*63-64 TRANSPORATION FABRIC**								
1984	73.1	61.4	- -	1.1	36.5	23.8	11.7	- -
1985	85.4	74.2	- -	0.8	53.9	19.5	11.2	- -
1986	r83.7	72.4	- -	1.0	50.5	20.9	r11.3	- -
1987	r99.6	86.9	- -	0.8	53.5	32.6	r12.7	- -
1988	107.7	97.3	- -	7.6	48.2	41.5	10.4	- -
*56c NARROW FABRICS**								
1984	110.9	98.1	0.9	- -	96.9	0.3	12.8	- -
1985	105.5	93.0	- -	- -	93.0	c	12.5	- -
1986	r122.8	105.3	- -	- -	105.3	- -	r17.5	- -
1987	r122.3	104.1	- -	- -	104.1	- -	r18.2	- -
1988	129.9	112.1	- -	- -	111.4	0.7	17.8	- -
*74 BAGS & BAGGING**								
1984	46.6	41.3	- -	- -	40.5	0.8	5.3	- -
1985	60.2	55.1	- -	- -	54.5	0.6	5.1	- -
1986	r58.3	53.0	- -	- -	52.2	0.8	r5.3	- -
1987	r63.0	57.6	- -	0.3	54.8	2.5	r5.4	- -
1988	62.5	58.3	0.1	0.1	57.6	0.5	4.2	- -
*MISCELLANEOUS INDUSTRIAL & CONSUMER-TYPE PRODUCTS**								
1984	302.3	216.7	0.5	11.9	88.9	115.4	84.6	1.0
1985	347.2	245.3	3.6	12.9	88.9	139.9	100.9	1.0
1986	r373.8	306.9	3.3	9.4	195.9	98.3	r65.8	1.1
1987	r431.1	r359.1	- -	18.1	r222.1	r118.9	r70.9	1.1
1988	402.8	344.8	3.7	6.8	244.4	89.9	57.0	1.0

Most of the above data are taken from the Fiber Economics Bureau's publication ***Manufactured Fiber Handbook.***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

GENERAL NOTES FOR END USE TABLES
ON PAGES 207-213

Units are in million pounds.

- - - Little, or none, of the fiber is used.
- * When an asterisk appears, there is a footnote at the end of the table.
- a. This letter in the title of each table refers the reader to these notes.
- b. Manufactured fiber end use in these tables is divided between Artificial (Cellulosic), (rayon+acetate fibers) and Synthetic (Noncellulosic), (nylon, polyester, acrylic & olefin fiber). Yarn includes monofilaments and olefin "yarn" also includes film fiber and spunbonded polypropylene. Staple includes tow & fiberfill; see Item 79a, Fiberfill, Stuffing & Flock and its footnote on page 216. Certain waste quantities, which are tabulated with staple, are included; see text on page 203.

  The synthetic (noncellulosic) fibers included in this survey, for one or more years, are the acrylic, modacrylic, nylon, olefin (polyethylene & polypropylene), polyester fibers through 1988. 1987 & 1988 exclude vinyon fiber.
- c. Less than 50,000 pounds, i.e., nominal.
- d. The staple data are tabulated in the yarn column.
- e. The yarn data are tabulated in the staple column.
- r. This data shows a significant revision compared with the September 1988 ***Textile Organon*** data.

As described in the footnotes to Items 54a and 54b, apparel linings, pockets and such are tabulated in Items 54a and 54b and not with the applicable garments.

In the Apparel table, the sex and age classifications used are those of the U.S. Census Bureau. Thus **M** means Men's plus Boys' and **W** means all other persons, i.e., Women's, Misses', Juniors', Girls', Children's & Infants'.

NOTES FOR APPAREL ITEMS
PAGES 208-209

For all lettered and general footnotes to this table, see notes above.

40. **SHEER HOSIERY:**
Includes pantyhose, stockings, body stockings, leotards & tights, sheer knee-highs & anklets and support hose.

19,41. **ANKLETS & SOCKS:**
Include footsocks, anklets, half-hose, over-the-calf hosiery and nonsheer knee-highs for all ages and both sexes. Also includes infants' and children's waist-highs.

8,29. **SWEATERS (MW):**
Knitted sweater shirts, scarves, mufflers, gloves, mittens, caps, etc. Pullover, coat & cardigan types, full-fashioned and cut and sewn. Also note Item 57.

57. **CRAFT & HANDWORK YARNS:**
All yarns for handwork, i.e., knitting, embroidery, crocheting, needlepoint, macramé, crewel and yarn kits for all uses. Does not include sewing thread (Item 72). Olefin yarn for macramé is in Miscellaneous Industrial.

16-18. **UNDERWEAR & NIGHTWEAR (M):**
Undershirts, shorts & briefs, pajamas, nightshirts, sleepcoats, thermal underwear, etc.

35-39. **UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS:**
Underwear and nightwear component includes full and halfslips, panties, petticoats, pettipants, camisoles, vests, briefs and thermal underwear as well as nightgowns, pajamas, sleepcoats, peignoirs, robes, negligees and bedjackets. Also includes bodywear and all children's and infants' underwear & nightwear. **Excludes** the trim, elastic webbing, apparel lace, braid or narrow fabric used in these products.

The bras and foundations include corsets, girdles, combinations and one-piece garments, garter belts, hose supporters, two-way stretch and surgical & maternity foundation garments.

10,31. **ROBES & LOUNGEWEAR (MW):**
Men's & boys' beach & bathrobes, dressing gowns and smoking jackets, and women's beach & bathrobes and house-breakfast & brunch coats and dressing gowns.

54a. **HIGH PILE FABRICS:**
Include all applications. End uses such as coatings, collars, linings, backings and paint rollers are included. Napped or brushed fabrics such as fleeces, velvets or corduroys are excluded.

54b. **FABRICS FOR LINING:**
All manufactured fiber types except high pile fabrics (Item 54a), lining-type fabrics sold as retail piece goods and the lining components of shoes & slippers and luggage and handbags (Miscellaneous Other Consumer-Type). The apparel lining component of this series include main linings, interlinings, zip-in linings (except pile), pocketing and banding as well as the acetate and nylon tricot for laminating. Cotton drapery linings are not included here but are in Item 52. Also not included are interlinings of haircloth, urethane and non-woven fabrics.

43. **APPAREL LACE:**
Nets and veilings.

56a. **NARROW FABRICS:** ELASTIC AND NONELASTIC TYPES.
The "narrow woven goods" made by slicing broad woven fabrics are not included. **NARROW FABRIC** quantities for home textiles and industrial uses are shown in those sections.

RETAIL PIECE GOODS:
Are included in Topweight and Bottomweight Fabrics.

TOPWEIGHT FABRICS:
All shirts, blouses, lightweight dress and lightweight fashion fabrics. Fabrics generally weigh 5.0 ounces or less per square yard. Retail piece goods are included.

BOTTOMWEIGHT FABRICS:
Pants, jeans, sportswear, tailored clothing, coats and jackets, career apparel and heavier weight fashion fabrics. Fabrics generally weigh more than 5.0 ounces per square yard. Retail piece goods are included.

OTHER APPAREL:
Men's & women's work gloves and handkerchiefs. Manufactured fiber used for knitted accessories such as scarves, mufflers, gloves, mittens, caps, etc., is in Items 8 & 29.

NOTES FOR HOME TEXTILE ITEMS
PAGES 210-211

For all lettered and general footnotes to this table, see page 214.

HOME TEXTILES:

Data cover the use of each item not only in homes, but also in offices, hotels, institutions, etc. For certain transportation uses, note Items 50a, 63 & 64.

None of the quantities tabulated include any cotton stuffing or filling materials in items such as furniture, pillows, mattresses, comforters & quilts, sleeping bags, seat padding, etc. For the manufactured fibers, however, stuffing & fiberfill is tabulated in the Industrial section. Note text page 203 regarding the inclusion of certain manufactured fiber waste quantities here. Certain felt quantities are in Item 70.

45. **BEDSPREADS:**
Tailored & throw spreads, both tufted & woven, as well as the backing. **QUILTS:** Comforters and their outer shell, quilted pads are in Item 47.

46. **BLANKETS & BLANKETING:**
Woven, knit, needle-punched and flocked full-size and crib blankets and electric blanket shells, as well as the woven acetate or nylon filament yarn bindings thereof. Sizable quantities of rayon, acrylic, nylon & wool waste are included here.

47. **SHEETS:**
Pillowcases. **OTHER BEDDING:** Outside covers of quilted pads; mattress & mattress pads, civilian cots and sleeping bag shells. Mattress felts are in Item 70. The manufactured staple quantities here are mainly polyester for sheets and rayon & polyester for bed ticking. The manufactured filament is chiefly polyester for bed ticking.

48. **TOWELS & TOWELING:**
Woven hand, bath, dish towels, etc. Nonwoven towels, such as "Handi-wipes" and industrial wiping cloths, are in Item 61. The large cotton waste quantity used in these products is not included.

56b. **NARROW FABRICS:**
Only home textiles applications. See the Apparel and Industrial sections for Narrow Fabrics in those applications.

51. **CURTAINS & DRAPERY:**
Lace and other types (principally woven) i.e., cafe, tiered & cottage, ruffled, shortie drapes and tailored. Also includes the backing & headers of drapery fabrics. The cotton data include cotton drapery linings. Shower curtains are in Other Home Textiles.

52. **UPHOLSTERY:**
Furniture slipcovers and vinyl-coated cotton fabrics for upholstery. The olefin & saran webbing for outdoor furniture is included under Narrow Woven Industrial (Item 56c).

OTHER HOME TEXTILES:

Woven & lace napery, such as tablecloths & napkins, doilies, etc., as well as the cotton in window shades. For the manufactured fibers, it includes insect screening & netting. Wall covering fabric is in Miscellaneous Industrial.

NOTES FOR FLOOR COVERING ITEMS
PAGE 211

For all lettered and general footnotes to this table, see page 214.

50. **CARPETS & RUGS FACE FIBER (TOTAL):**
Sum of 50a & 50b.

50a. **FACE YARNS:**
Tufted, woven, knitted and needle-punched types. Tufted includes broadloom & roll goods,(including carpet tiles) transportation carpet, bath mats, scatter rugs, and "grass." Woven includes carpets such as Axminster, Velvet, Wilton, etc. Knit goods are mainly scatter rugs. Needle-punched are the indoor outdoor carpets. Item 50a does not include braided, hooked or woven twisted paper carpets.

50b. **CARPET BACKING FIBERS:**
The Artificial (Cellulosic) Yarn is industrial rayon used for woven carpet chain warps. The Other Yarn is olefin (monofil+ film fiber+spunbonded) and small quantities of nylon & polyester filament yarn. The Other Staple is olefin only. The substantial quantities of jute used as woven primary & secondary carpet backing, as well as the jute yarn used in the warp of woven carpets, are not tabulated in Item 50b. Nor does it include the quantities of wool, hair and jute used in carpet and rug pads and cushions.

NOTES FOR INDUSTRIAL & OTHER CONSUMER -TYPE ITEMS
PAGES 212-213

For all lettered and general footnotes to this table, see page 214.

56c. **NARROW FABRICS:**
Woven labels, industrial webbing, shoelaces, tapes (venetian blinds & industrial), transportation seat belts, auto windlace, channeling & trim, outdoor furniture webs and zipper tapes. These figures exclude transmission & conveyor belting (in Item 67); friction tape and the braided narrow fabric used in electrical applications (in Item 69); and gummed cotton tape (in Item 76).

61. **MEDICAL, SURGICAL & SANITARY:**
Bandages, gauzes, adhesive tapes & plasters, sanitary napkins & tampons, cotton diapers, rayon disposable diapers, surgical gowns and packs. Medical sutures are tabulated in Item 72. Surgical hosiery is in Items 19 & 40. Not included here is cotton waste & linters nor any nontextiles used for filling materials.

63 & 64. **TRANSPORTATION FABRIC:**
Auto seat upholstery & slipcovers, sidewall, headlining and sheeting. The cotton quantities include the knit and woven fabric used as the backing for vinyl sheeting. The item includes convertible auto tops & replacements thereof, as well as upholstery used in other kinds of transportation, such as airplanes, railroad & subway cars, buses, etc. it does not include seat padding, transportation rugs (in Item 50), window channeling (in Item 56c), flocking, tassels, trim, etc. The manufactured fiber used for substrates for automotive fabric is included in Item 75.

65. TIRES:

All types, i.e., automobile, truck, tractor, off-road, bicycle, etc. The data include tire cord & tire cord fabric, chafer and other tire components, i.e., flippers, liners, bead wrap & breaker strips.

The data include imports of tire yarn, cord & fabric and also cover any quantities subsequently exported in cord or fabric form.

The consumption of steel tire cord for the years 1984-1988 inclusive is estimated as follows: 300.5, 317.6, 327.0, 349.0 & 393.0. However, these quantities are **not included** in Item 65.

66. HOSE:

Includes wrapped, knitted, braided and woven products. Does not include braided vacuum cleaner hose.

67. BELTING:

Includes flat conveyor & transmission belts (both rubber and nonrubber, and mechanical rubber goods).

69 & 77. ELECTRICAL APPLICATIONS & REINFORCED PLASTICS:

The cotton quantities are estimated.

Electrical Applications: Electric wire insulation & covering of all kinds plus friction tape and cable wrap, stuffing & identification.The total fiber consumed does not reflect the increased use of plastic and other nonfibrous coatings, of course.

Reinforced Plastics: High- and low-pressure laminates used in the manufacture of construction materials (corrugated & flat sheet, plumbing accessories, etc.), process equipment (tanks & containers, pipes, ducts, etc.), transportation uses (aircraft, autos, trucks, etc.) and marine, missiles, molded electrical parts, housing, seating, trays, etc. Flexible laminates of cotton are tabulated by end use, e.g., vinyl-supported upholstery fabric in Item 63, etc.

70. FELTS:

Wet & dry papermakers' felts, mattress felts and cushioning & wicking felts. Apparel felts (e.g., for shirts) are classified by apparel products. Patio and similar "felts" are in Item 50a. Laundry press pads and flatwork ironer pads are in Miscellaneous Industrial. The wool quantity includes some felts used in filtration (recorded here and not in Item 71), but excludes the substantial amounts used in pressed felts.

The consumption of cotton linters for the years 1984-1988 inclusive is estimated as follows: 102.3, 138.7, 131.7, 106.5 & 137.2. However, these quantities are **not included** in item 70.

71. FILTRATION:

Woven and nonwoven filters for wet & dry filtration, including tea bags. The small wool quantity used in the copper refining industry is included in Item 70.

The fiber used in cigarette filtration is **not included** in this end use or in the Industrial Uses totals.

72. SEWING THREAD:

Home sewing and industrial & weight goods, as well as medical sutures.

73. ROPE (Braided & twisted), **CORDAGE** (under 3/16"), **FISHLINE, ETC:**

Includes hawsers, baler or harvest twine, clothesline, tying twine, etc., as well as fishnets, seines & netting twine.

74. BAGS & BAGGING:

Manufactured Other Yarn is nylon mailbags plus olefin leno mesh & close-woven bags, including sandbags; also includes olefin bagging for wool bales. Carpet backing bale wrap is in Other Industrial.

75. COATED & PROTECTIVE FABRICS:

For the manufactured fibers, tents & tarpaulins, as well as the substrates for vinyl, rubber or urethane coating, lamination or impregnation. Examples of specific end uses covered include parachutes, deceleration chutes & tow targets, awnings, beach, garden & tractor umbrellas, inflatable dunnage & cushions, air-supported structures & automotive air-spring diaphragms and boat & pool covers.

The cotton quantities include awnings, boat covers, tarpaulins and tents. **Not included** here are the cotton quanities used for vinyl substrates; such quantities are tabulated with their appropriate end use, i.e., transportation upholstery (Items 63 & 64), upholstery (Item 52), etc. Manufactured fiber surfaces for recreational fields are not included in this survey.

76. PAPER & TAPE REINFORCING:

Gummed and pressure-sensitive tape, as well as nonwoven bonded structures for paper, tape and ribbon reinforcing.

79a. FIBERFILL, STUFFING & FLOCK:

All applications (apparel, home textiles & industrial). Both graded fiber and waste are included. The consumption of polyester staple & tow in fiberfill for the years 1984-1988 inclusive was: 277.7, 282.5, 294.9, 348.6 & 357.2. For the same years, use of polyester waste for stuffing and filling materials was: 24.8, 50.9, 60.3, 45.3 & 50.1.

79b. UNALLOCATED NONWOVENS:

All nonwoven quantities remaining after the identifiable nonwoven end uses, such as medical, surgical & sanitary, filtration, coated & protective fabrics, and paper & tape reinforcing, have been calculated.

MISCELLANEOUS INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS:

The cotton for abrasives, book binding, luggage & hand bags, shoes & slippers, tobacco cloth, woven wiping cloths and wall-covering fabrics. For rayon, it includes asbestos carrier fiber, laundry supplies and mop yarns. For olefin yarn, it includes agricultural cloth, bale wrap, cable binding, civil engineering fabrics and macramé and other craft yarns.

The consumption of cotton linters for the years 1984-1988 inclusive is estimated as follows: 18.5, 25.1, 23.8, 19.2 & 24.8. However, these quantities are **not included** in Miscellaneous Industrial & Other Consumer Type Products.

TABLE 11:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN

THOUSAND POUNDS

	1989												YEAR TO DATE	
ITEMS & COUNTRY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	6	1	4	0	139						150	
BRAZIL	53	110	55	0	54	76	22						370	
CANADA	745	619	686	613	656	532	399						4250	
CHILE	44	22	22	22	22	44	48						224	
GERMANY, FED. REP. OF	784	515	697	452	436	362	521						3767	
IRELAND	37	0	36	138	34	36	107						388	
JAPAN	55	121	122	185	110	206	57						856	
KOREA, REP. OF	66	22	0	56	0	22	11						177	
MEXICO	156	99	171	45	153	144	213						981	
NETHERLANDS	61	239	261	173	204	380	262						1580	
UNITED KINGDOM	75	68	113	135	75	66	84						616	
ALL OTHER COUNTRIES [a]	40	24	30	8	168	62	363						695	
TOTAL ARTIFICIAL YARN	**2116**	**1839**	**2199**	**1828**	**1916**	**1930**	**2226**						**14054**	**9289**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	323	422	377	226	381	430	394						2553	
CANADA	4757	1990	4093	3462	3409	2370	1638						21719	
CHINA, PRC	104	0	369	0	752	0	110						1335	
GERMANY, DEM. REP.	0	0	95	43	82	80	44						344	
GERMANY, FED. REP. OF	68	67	95	116	124	142	208						820	
JAPAN	150	521	422	263	107	60	84						1607	
SWITZERLAND	9	25	41	37	65	40	286						503	
TAIWAN	28	0	28	88	320	0	264						728	
UNITED KINGDOM	265	225	1	47	69	42	67						716	
ALL OTHER COUNTRIES [b]	273	241	123	138	111	255	42						1183	
TOTAL ARTIFICIAL STAPLE+TOW	**5977**	**3491**	**5644**	**4420**	**5420**	**3419**	**3137**						**35108**	**9055**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
ARGENTINA	0	30	46	0	11	38	1479						1604	
BELGIUM	0	56	115	171	343	236	568						1489	
BRAZIL	106	63	170	30	140	201	57						767	
CANADA	3437	2926	2969	2399	3327	3304	2445						20807	
COSTA RICA	252	487	591	433	415	517	537						3232	
ECUADOR	91	26	144	0	58	23	71						413	
FRANCE	1180	1151	1079	1159	1159	1085	972						7785	
GERMANY, FED. REP. OF	2231	2204	2641	2514	2357	3691	2202						17840	
ISRAEL	299	217	172	149	285	244	117						1483	
ITALY	924	323	873	859	1031	132	489						4631	
JAPAN	469	610	568	609	548	502	845						4151	
KOREA, REP. OF	10	49	7	81	98	42	89						376	
MEXICO	1447	2222	2385	1857	2527	2911	2490						15839	
NETHERLANDS	68	193	267	338	69	63	398						1396	
SINGAPORE	0	25	0	33	0	33	16						107	
TAIWAN	50	175	650	1296	2844	3217	3133						11365	
THAILAND	65	64	69	67	63	171	124						623	
UNITED KINGDOM	1482	1357	1409	1649	1790	1506	1635						10828	
ALL OTHER COUNTRIES [c]	36	175	221	260	67	330	189						1278	
TOTAL SYNTHETIC YARN	**12147**	**12353**	**14376**	**13904**	**17132**	**18246**	**17856**						**106014**	**57736**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	3	9	13	1	0	79						105	
AUSTRALIA	31	160	1	82	16	43	149						482	
BELGIUM	47	99	60	56	67	7	7						343	
CANADA	1413	737	1481	1489	1292	874	622						7908	
FRANCE	230	304	253	405	388	336	136						2052	
GERMANY, FED. REP. OF	1985	1758	1318	1293	1491	1780	1084						10709	
INDIA	0	0	3772	3400	709	49	1772						9702	
IRELAND	280	480	305	348	0	36	0						1449	
ITALY	482	394	206	46	61	34	70						1293	
JAPAN	1773	1757	2303	2770	2429	1826	1929						14787	
KOREA, REP. OF	2297	3387	3933	4165	5687	4876	4806						29151	
MEXICO	1049	372	420	1016	783	462	579						4681	
NETHERLANDS	31	103	99	81	56	105	21						496	
SPAIN	8	0	178	39	65	128	0						418	
SWITZERLAND	146	165	134	166	125	42	242						1020	
TAIWAN	262	235	215	808	917	2057	2093						6587	
TURKEY	18	0	0	0	111	37	90						256	
UNITED KINGDOM	2318	2304	1643	2107	2671	1229	1645						13917	
ALL OTHER COUNTRIES [d]	2	53	45	56	29	28	0						213	
TOTAL SYNTHETIC STAPLE+TOW	**12372**	**12311**	**16375**	**18340**	**16898**	**13949**	**15324**						**105569**	**112295**

a. Belgium 334, Italy 83, Taiwan 67, China, PRC 51, France 43, Greece 41, Norway 32, Singapore 23, Egypt 21.

b. Australia 217, Poland 189, Korea, Rep. of 171, Romania 135, France 115, Sweden 76, Belgium 73, Italy 69, Finland 57, Spain 47, India 18, Thailand 11, Mexico 1.

c. Portugal 304, Egypt 258, Ireland 132, Turkey 129, Austria 102, Peru 76, Australia 49, Switzerland 57, Spain 34, El Salvador 35, Morocco 26, Hong Kong 24, Honduras 20, Sweden 12, Colombia 9, Denmark 9, Greece 2.

d. Israel 142, Germany, Dem. Rep. 42, Brazil 24, Hong Kong 3, China, PRC 2.

Effective January 1,1989 the U.S. Manufactured Imports for Consumption by Country of Origin are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years**.

Selected U.S. Manufactured Imports for Consumption by Country of Origin for 1988 are published in the ***Textile Organon***, February 1989 issue, page 31.

TABLE 12:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

ITEM	1989												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	114	266	408	205	111	192	176						1472	
TEXTURED	180	1	0	24	0	27	497						729	
OTHER	1726	1532	1671	1449	1732	1673	1402						11185	
MONOFILAMENTS & STRIPS	96	40	120	150	73	38	151						668	
SUBTOTAL ABOVE	**2116**	**1839**	**2199**	**1828**	**1916**	**1930**	**2226**						**14054**	9289
STAPLE	5924	3481	5624	4403	5312	3419	3113						31276	
TOW	47	0	0	7	103	0	24						181	
TOPS	6	10	20	10	5	0	0						51	
SUBTOTAL ABOVE	**5977**	**3491**	**5644**	**4420**	**5420**	**3419**	**3137**						**31508**	3055
WASTE	**18**	**122**	**47**	**213**	**0**	**0**	**0**						**400**	5
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1037	1093	1506	1578	1829	1964	1480						10487	
TEXTURED														
UP TO 450 DENIER	385	217	359	285	319	315	333						2213	
OVER 450 DENIER	1311	1054	1428	1294	1241	654	943						7925	
OTHER	3820	3306	3786	3845	4296	5210	4007						28270	
MONOFILAMENTS & STRIPS	72	159	58	113	143	116	120						781	
SUBTOTAL ABOVE	**6625**	**5829**	**7137**	**7115**	**7828**	**8259**	**6883**						**49676**	22362
POLYESTER														
HIGH TENACITY	957	880	909	488	797	703	361						5095	
TEXTURED	883	1673	1738	1766	1775	2385	1747						11967	
POY	0	40	642	1088	2744	3214	3170						10898	
OTHER	1152	1481	1719	1740	1324	1567	1551						10534	
MONOFILAMENTS & STRIPS	65	80	34	55	24	70	73						401	
SUBTOTAL ABOVE	**3057**	**4154**	**5042**	**5137**	**6664**	**7939**	**6902**						**38895**	20984
OTHER SYNTHETIC FILAMENT														
TEXTURED	2057	1685	1550	1054	2074	1555	1199						11174	
OTHER	261	386	339	274	171	136	1049						2616	
MONOFILAMENTS & STRIPS	147	299	308	324	395	357	1823						3653	
SUBTOTAL ABOVE	**2465**	**2370**	**2197**	**1652**	**2640**	**2048**	**4071**						**17443**	24390
STAPLE														
NYLON	1726	1896	1845	1592	1422	1273	1445						11199	
POLYESTER	5584	5594	10047	10627	10327	8674	9941						60794	
ACRYLIC	1934	1028	1576	1518	1206	1511	1335						10108	
POLYPROPYLENE	44	55	197	351	93	220	298						1258	
OTHER	172	1040	651	740	167	165	259						3194	
TOW														
NYLON	237	433	257	504	341	315	225						2312	
POLYESTER	47	78	131	49	140	114	31						590	
ACRYLIC	2023	1709	1127	2522	2868	1462	1574						13285	
OTHER	117	120	146	0	0	14	0						397	
TOPS	488	358	398	437	334	201	216						2432	
SUBTOTAL ABOVE	**12372**	**12311**	**16375**	**18340**	**16898**	**13949**	**15324**						**105569**	112295
WASTE														
NYLON	1971	1804	1754	2087	1949	2027	1769						13361	
POLYESTER	999	340	730	1029	846	973	1475						6392	
OTHER	396	725	477	486	547	389	326						3346	
TOTAL MANUFACTURED FIBERS ABOVE	**35996**	**32985**	**41602**	**42307**	**44708**	**40933**	**42113**						**280644**	223626
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	229	84	46	26	74	73	105						637	
SPUN YARN	492	396	370	287	418	406	466						2835	
SPUN YARNS														
SYNTHETIC	517	686	517	258	677	1019	937						4611	
ARTIFICIAL	0	0	0	0	0	0	0						0	
PUT UP FOR RETAIL SALE	71	50	27	37	74	39	128						426	
GRAND TOTAL ABOVE	**37305**	**34201**	**42562**	**42915**	**45951**	**42470**	**43749**						**289153**	268640

SOURCE: U S Census Bureau Report IM145X

Effective January 1,1989 the U S Imports are based on the new Harmonized System (HS) On pages 73 through 79 of the ***Fiber Organon*** April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers Annotated for Statistical Reporting Purposes **Data for 1989 is not comparable to prior years.**

U S Monthly Imports of Manufactured Fibers for 1988, are published in the ***Textile Organon*** February 1989 issue on page 32

TABLE 13:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

	1989												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	9	13	45	26	30	16	74						213	
TEXTURED	463	17	29	1	29	28	1009						1576	
OTHER	694	63	18	60	21	15	51						922	
MONOFILAMENTS & STRIPS	90	0	7	93	5	9	21						225	
SUBTOTAL ABOVE	**1256**	**93**	**99**	**180**	**85**	**68**	**1155**						**2936**	**6930**
STAPLE	2827	1786	1325	920	1659	1786	2084						12387	
TOPS	94	0	8	129	53	48	7						339	
SUBTOTAL ABOVE	**2921**	**1786**	**1333**	**1049**	**1712**	**1834**	**2091**						**12726**	**13888**
WASTE	**1303**	**559**	**1587**	**1116**	**1635**	**1108**	**1021**						**8329**	**1415**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	9331	9410	7884	16614	6326	6999	11613						68177	
TEXTURED														
UP TO 450 DENIER	522	586	719	666	819	1271	488						5071	
OVER 450 DENIER	4706	5051	5459	4430	4096	3626	3176						30544	
OTHER	2038	2103	2133	2188	2571	2003	1669						14705	
MONOFILAMENTS & STRIPS	239	258	187	131	204	303	282						1604	
SUBTOTAL ABOVE	**16836**	**17408**	**16382**	**24029**	**14016**	**14202**	**17228**						**120101**	**94577**
POLYESTER														
HIGH TENACITY	3031	3122	2773	3282	4214	4080	3334						23836	
TEXTURED	3651	3677	2385	2939	3208	3577	1341						20778	
POY	939	1250	2204	1446	629	528	2782						9778	
OTHER	1007	584	829	983	777	1186	933						6299	
MONOFILAMENTS & STRIPS	208	213	203	132	302	332	275						1665	
SUBTOTAL ABOVE	**8836**	**8846**	**8394**	**8782**	**9130**	**9703**	**8665**						**62356**	**48856**
OTHER SYNTHETIC FILAMENT														
TEXTURED	1033	457	872	903	992	634	980						5871	
OTHER	1342	1471	1735	1730	1559	1332	1724						10893	
MONOFILAMENTS & STRIPS	486	421	771	1317	927	987	687						5596	
SUBTOTAL ABOVE	**2861**	**2349**	**3378**	**3950**	**3478**	**2953**	**3391**						**22360**	**26537**
STAPLE														
NYLON	2605	3265	3262	2629	3280	3985	2532						21558	
POLYESTER	14048	10762	12940	12923	10675	7497	8203						77048	
ACRYLIC	3326	5674	6643	6896	6342	9369	8569						46819	
POLYPROPYLENE	1336	1569	1129	2264	2714	2477	1995						13484	
OTHER	836	2036	1489	2562	1734	1757	2004						12418	
TOW														
NYLON	31	50	50	108	141	86	56						522	
POLYESTER	37	564	472	634	7	621	541						2876	
ACRYLIC	1037	1761	2185	3302	1467	829	1070						11651	
OTHER	161	16	34	503	9	7	77						807	
TOPS	847	964	1224	2191	3092	1230	1557						11105	
SUBTOTAL ABOVE	**24264**	**26661**	**29428**	**34012**	**29461**	**27858**	**26604**						**198288**	**231839**
WASTE														
NYLON	2127	2118	2159	2883	2102	2007	1852						15248	
POLYESTER	4369	3980	3189	5535	3685	2726	3631						27115	
OTHER	5113	6957	8080	6731	7071	5876	8304						48132	
TOTAL MANUFACTURED FIBERS ABOVE	**69886**	**70757**	**74029**	**88267**	**72375**	**68335**	**73942**						**517591**	**496153**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	13	51	43	74	9	93	41						324	
SPUN YARN	0	0	0	0	0	0	0						0	
SPUN YARNS														
SYNTHETIC	732	959	1152	1172	1944	1089	856						7904	
ARTIFICIAL	0	0	0	0	0	0	0						0	
PUT UP FOR RETAIL SALE	606	740	923	580	532	435	536						4352	
GRAND TOTAL ABOVE	**71237**	**72507**	**76147**	**90093**	**74860**	**69952**	**75375**						**530171**	

SOURCE: U S Census Bureau Report EM522

Effective January 1, 1989 the U S Exports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

U S Monthly Exports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 33

TABLE 14:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1989												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
	MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]													
ARTIFICIAL (CELLULOSIC)														
YARN	17.3	17.1	18.4	21.5	18.3	18.4	18.9	17.8					147.7	143.0
RAYON STAPLE	34.5	32.1	36.5	31.4	34.8	30.9	24.8	29.4					254.4	280.3
TOTAL ARTIFICIAL (CELLULOSIC)	**51.8**	**49.2**	**54.9**	**52.9**	**53.1**	**49.3**	**43.7**	**47.2**					**402.1**	**423.3**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	31.3	30.5	32.6	32.3	28.9	32.7	29.0	29.1					246.4	251.0
- CARPET	74.9	77.2	82.0	77.5	86.1	78.5	73.4	89.9					639.5	642.9
- TEXTILE[f]	33.9	33.2	35.0	34.6	33.8	34.2	31.8	32.3					268.8	251.1
POLYESTER - INDUSTRIAL[d]	28.6	29.7	30.9	32.2	30.4	32.8	30.7	31.9					247.2	237.8
- TEXTILE[f]	73.2	71.2	74.4	78.2	77.0	66.1	73.5	54.9					568.5	551.2
OLEFIN[e]	105.3	104.3	103.6	104.1	112.3	105.5	97.6	109.9					842.6	798.0
TOTAL YARN	**347.2**	**346.1**	**358.5**	**358.9**	**368.5**	**349.8**	**336.0**	**348.0**					**2813.0**	**2732.0**
STAPLE+TOW+FIBERFILL														
NYLON	82.3	78.4	88.8	76.4	81.3	78.3	74.9	90.8					651.2	637.1
ACRYLIC+MODACRYLIC	41.7	46.2	48.6	49.2	51.7	44.0	41.1	47.6					370.1	390.4
POLYESTER	205.8	192.1	212.4	214.3	208.1	193.9	182.0	198.3					1606.9	1575.6
OLEFIN	31.1	31.6	32.0	31.4	32.3	33.5	27.8	33.9					253.6	241.8
TOTAL STAPLE	**360.9**	**348.3**	**381.8**	**371.3**	**373.4**	**349.7**	**325.8**	**370.6**					**2881.8**	**2844.9**
TOTAL SYNTHETIC (NONCELLULOSIC)	**708.1**	**694.4**	**740.3**	**730.2**	**741.9**	**699.5**	**661.8**	**718.6**					**5694.8**	**5576.9**
TOTAL MANUFACTURED FIBER	**759.9**	**743.6**	**795.2**	**783.1**	**795.0**	**748.8**	**705.5**	**765.8**					**6096.9**	**6000.2**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	11.7	10.9	11.3	10.4	9.7	8.9	11.0	10.7					10.7	11.6
RAYON STAPLE	13.0	13.2	11.7	12.5	13.4	15.8	16.8	16.3					16.3	13.7
TOTAL ARTIFICIAL (CELLULOSIC)	**24.7**	**24.1**	**23.0**	**22.9**	**23.1**	**24.7**	**27.8**	**27.0**					**27.0**	**25.3**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.4	24.8	22.4	22.9	24.2	24.5	26.7	27.3					27.3	30.5
- CARPET	63.5	63.2	62.8	68.7	64.0	66.8	73.6	59.3					59.3	61.9
- TEXTILE[f]	47.1	48.3	46.4	47.0	47.4	49.2	52.7	54.1					54.1	55.2
POLYESTER - INDUSTRIAL[d]	35.0	31.4	30.6	31.6	30.9	31.9	33.9	32.3					32.3	32.4
- TEXTILE[f]	73.5	76.9	81.8	85.1	85.0	89.1	99.7	115.7					115.7	94.4
OLEFIN[e]	53.1	53.8	58.0	57.8	58.5	60.7	61.1	60.6					60.6	53.7
TOTAL YARN	**296.6**	**298.4**	**302.0**	**313.1**	**310.0**	**322.2**	**347.7**	**349.3**					**349.3**	**328.1**
STAPLE+TOW+FIBERFILL														
NYLON	51.8	52.9	51.0	57.5	57.5	57.0	59.1	46.9					46.9	60.6
ACRYLIC+MODACRYLIC	70.5	68.3	69.0	67.3	65.2	69.7	71.7	69.3					69.3	67.3
POLYESTER	163.5	163.8	158.5	164.4	176.2	191.0	226.5	233.6					233.6	194.9
OLEFIN	31.0	31.3	32.8	34.3	35.2	33.3	34.2	34.1					34.1	38.4
TOTAL STAPLE	**316.8**	**316.3**	**311.3**	**323.5**	**334.1**	**351.0**	**391.5**	**383.9**					**383.9**	**361.2**
TOTAL SYNTHETIC (NONCELLULOSIC)	**613.4**	**614.7**	**613.3**	**636.6**	**644.1**	**673.2**	**739.2**	**733.2**					**733.2**	**689.3**
TOTAL MANUFACTURED FIBER	**638.1**	**638.8**	**636.3**	**659.5**	**667.2**	**697.9**	**767.0**	**760.2**					**760.2**	**714.6**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	12.1	12.8	14.1	11.5	11.5	11.8							73.8	75.0
CARPET CLASS WOOL	0.8	1.4	1.5	1.6	1.6	1.4							8.3	8.4
TOTAL RAW WOOL	**12.9**	**14.2**	**15.6**	**13.1**	**13.1**	**13.2**							**82.1**	**83.4**
RAW COTTON	289.5	301.0	339.2	305.7	359.7	348.8	269.3						2213.2	2055.1

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

C3460-1

FIBER ORGANON

Formerly Textile Organon
Volume 60, No.10 ☐ October 1989
A puplication of *Fiber Economics Bureau,* Inc.

Highlights

- Mill Consumption in Selected Countries ... see page 223.
- U.S. Manufactured Fiber Textile Trade Balance: An Overview ... begins on page 224.
- Selected U.S. Exports by Country of Destination ... see pages 236 - 237.
- Quarterly Manufactured Fiber Data ... see pages 238 - 239.

SHIPMENTS:

In September, total manufactured fiber shipments reached 735 million pounds, 4% below the 766 million pounds shipped in August and 5% below the 772 million pounds shipped in September 1988.

September shipments of synthetic (noncellulosic) filament yarn fell 1% to 347 million pounds and staple+tow fell 7% to 345 million pounds.

Contributing to the decrease in shipments over the previous month were polyester industrial yarn down 10% or 3 million pounds, polyester staple+tow down 8% or 16 million pounds and acrylic staple+tow down 4 million pounds or 7%.

Year-to-date domestic shipments of manufactured fiber are up 2% and exports are down 15%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1989 SEP	1989 AUG	% CHG 9/89 - 8/89	1988 SEP	% CH 9/89 - 9/88	YEAR TO DATE 1989	YEAR TO DATE 1988	% CHG YTD 1989-1988
ARTIFICIAL (CELLULOSIC)								
YARN	17.3	17.8	*-2.8*	18.1	*-4.4*	165.0	161.1	*+2.4*
RAYON STAPLE	26.7	29.4	*-9.2*	34.3	*-22.2*	281.1	314.6	*-10.6*
TOTAL ARTIFICIAL (CELL.)	**44.0**	**47.2**	***-6.8***	**52.4**	***-16.0***	**446.1**	**475.7**	***-6.2***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	28.6	29.2	*-2.1*	29.2	*-2.1*	275.2	280.2	*-1.8*
- CARPET	88.7	89.9	*-1.3*	87.1	*+1.8*	728.2	730.2	*-0.3*
- TEXTILE [a]	32.6	32.3	*+0.9*	32.0	*+1.9*	301.4	283.1	*+6.5*
POLYESTER - INDUSTRIAL	26.6	31.9	*-10.3*	30.6	*-6.5*	275.8	268.4	*+2.8*
- TEXTILE [a]	58.6	54.9	*+6.7*	69.1	*-15.2*	627.1	620.3	*+1.1*
OLEFIN	109.4	109.9	*-0.5*	105.1	*+4.1*	952.0	903.1	*+5.4*
TOTAL YARN	**346.5**	**348.1**	***-0.5***	**353.1**	***-1.9***	**3159.7**	**3085.3**	***+2.4***
STAPLE+TOW+FIBERFILL								
NYLON	85.5	90.8	*-5.8*	81.3	*+5.2*	736.7	718.4	*+2.5*
ACRYLIC+MODACRYLIC	44.1	47.6	*-7.4*	51.8	*-14.9*	414.2	442.2	*-6.3*
POLYESTER	182.0	198.3	*-8.2*	202.9	*-10.3*	1788.9	1778.5	*+0.6*
OLEFIN	33.1	33.9	*-2.4*	30.2	*+9.6*	286.7	272.0	*+5.4*
TOTAL STAPLE	**344.7**	**370.6**	***-7.0***	**366.2**	***-5.9***	**3226.5**	**3211.1**	***+0.5***
TOTAL SYNTHETIC (NONCELL.)	**691.2**	**718.7**	***-3.8***	**719.3**	***-3.9***	**6386.2**	**6296.4**	***+1.4***
TOTAL MANUFACTURED FIBER	**735.2**	**765.9**	***-4.0***	**771.7**	***-4.7***	**6832.3**	**6772.1**	***+0.9***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS [b]	698.2	725.4	*-3.7*	717.8	*-2.7*	6456.8	6329.1	*+2.0*
EXPORTS [c]	37.0	40.5	*-8.6*	53.9	*-31.4*	375.5	443.0	*-15.2*

[a] Includes low denier industrial yarn.

[b] Includes olefin exports.

[c] Excludes olefin exports.

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Formerly ***Textile Organon***

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TABLE 2:
MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL IN SELECTED COUNTRIES
MILLION POUNDS & *PERCENT*

									MANUFACTURED FIBER DETAIL							
							MANUF. FIBERS		ARTIFICIAL (CELL.)				SYNTHETIC (NONCELL.)			
	GRAND TOTAL		COTTON		WOOL				TOTAL		YARN	STAPLE	TOTAL		YARN	STAPLE
YEAR	LBS	%[a]	LBS	%[a]	LBS	%[a]	LBS	%[a]	LBS	%[a]	LBS	LBS	LBS	%[a]	LBS	LBS
U.S.A [b]																
1981	10606	*100*	2731	*25.8*	153	*1.4*	7722	*72.8*	715	*6.7*	284	431	7007	*66.1*	3502	3505
1982	9263	*100*	2479	*26.8*	130	*1.4*	6654	*71.8*	522	*5.6*	206	316	6132	*66.2*	2918	3214
1983	10954	*100*	2796	*25.5*	163	*1.5*	7995	*73.0*	599	*5.5*	242	357	7396	*67.5*	3434	3962
1984	10621	*100*	2668	*25.1*	163	*1.5*	7790	*73.4*	588	*5.6*	228	360	7202	*67.8*	3399	3803
1985	10967	*100*	2796	*25.5*	135	*1.2*	8036	*73.3*	546	*5.0*	201	345	7490	*68.3*	3664	3826
1986	11920	*100*	3302	*27.7*	165	*1.4*	8453	*70.9*	608	*5.1*	209	399	7845	*65.8*	3747	4098
1987	12767	*100*	3737	*29.3*	168	*1.3*	8862	*69.4*	586	*4.6*	180	406	8276	*64.8*	3927	4349
1988	12560	*100*	3401	*27.1*	156	*1.2*	9003	*71.7*	613	*4.9*	200	413	8390	*66.8*	4022	4368
CANADA [c]																
1981	535	*100*	132	*24.7*	15	*2.8*	388	*72.5*	58	*10.8*	DETAIL NOT AVAILABLE		330	*61.7*	DETAIL NOT AVAILABLE	
1982	442	*100*	88	*19.9*	12	*2.7*	342	*77.4*	63	*14.3*			279	*63.1*		
1983	560	*100*	121	*21.6*	15	*2.7*	424	*75.7*	60	*10.7*			364	*65.0*		
1984	579	*100*	121	*20.9*	14	*2.4*	444	*76.7*	59	*10.2*			385	*66.5*		
1985	595	*100*	106	*17.8*	16	*2.7*	473	*79.5*	53	*8.9*			420	*70.6*		
1986	686	*100*	119	*17.3*	18	*2.7*	549	*80.0*	69	*10.0*			480	*70.0*		
1987	661	*100*	95	*14.4*	15	*2.3*	551	*83.3*	51	*7.7*			500	*75.6*		
1988	660	*100*	101	*15.3*	14	*2.1*	545	*82.6*	49	*7.4*			496	*75.2*		
JAPAN [d]																
1981	4282	*100*	1199	[illegible]	247	*5.8*	2836	*66.2*	525	*12.2*	155	370	2311	*54.0*	1206	1105
1982	4311	*100*	1235	[illegible]	249	*5.8*	2827	*65.6*	530	*12.3*	152	378	2297	*53.3*	1165	1132
1983	4242	*100*	1146	*27.0*	227	*5.4*	2869	*67.6*	531	*12.5*	137	394	2338	*55.1*	1197	1141
1984	4387	*100*	1139	*26.0*	252	*5.7*	2996	*68.3*	550	*12.6*	145	405	2446	*55.7*	1253	1193
1985	4333	*100*	1114	*25.7*	263	*6.1*	2956	*68.2*	535	*12.3*	143	392	2421	*55.9*	1236	1185
1986	4138	*100*	1109	*26.8*	244	*5.9*	2785	*67.3*	508	*12.3*	136	372	2277	*55.0*	1169	1108
1987	4309	*100*	1150	*26.7*	271	*6.3*	2888	*67.0*	463	*10.7*	134	329	2425	*56.3*	1234	1191
1988	4364	*100*	1148	*26.3*	271	*6.2*	2945	*67.5*	464	*10.7*	141	323	2481	*56.8*	1320	1161
EEC [e]																
1981	7187	*100*	1828	*25.4*	910	*12.7*	4449	*61.9*	985	*13.7*	317	668	3464	*48.2*	1379	2085
1982	6967	*100*	1943	*27.9*	827	*11.9*	4197	*60.2*	921	*13.2*	282	639	3276	*47.0*	1320	1956
1983	7246	*100*	1960	*27.1*	815	*11.2*	4471	*61.7*	911	*12.6*	274	637	3560	*49.1*	1398	2162
1984	8918	*100*	2508	*28.1*	927	*10.4*	5483	*61.5*	1089	*12.2*	321	768	4394	*49.3*	1693	2701
1985	9299	*100*	2505	*26.9*	936	*10.1*	5858	*63.0*	1150	*12.4*	361	789	4708	*50.6*	1799	2909
1986	9546	*100*	2656	*27.8*	936	*9.3*	5954	*62.9*	1127	*12.3*	351	776	4827	*50.6*	1854	2973
1987	10145	*100*	3069	*30.3*	976	*9.6*	6100	*60.1*	1107	*10.9*	340	767	4993	*49.2*	1917	3076
1988	DATA NOT AVAILABLE															
TAIWAN [f]																
1981	1867	*100*	525	*28.1*	[illegible]	*1.7*	1311	*70.2*	DETAIL NOT AVAILABLE							
1982	2005	*100*	558	*27.8*	37	*1.9*	1410	*70.3*								
1983	2309	*100*	597	*25.9*	40	*1.7*	1672	*72.4*								
1984	2656	*100*	644	*24.2*	42	*1.6*	1970	*74.2*								
1985	3150	*100*	950	*30.2*	32	*1.0*	2168	*68.8*								
1986	3652	*100*	970	*26.6*	53	*1.4*	2629	*72.0*								
1987	3802	*100*	892	*23.5*	58	*1.5*	2852	*75.0*								
1988	3702	*100*	864	*23.3*	45	*1.3*	2793	*75.4*								

a. The percentages in these columns show the share of each fiber in the specified year. They add to the 100% shown in each of the Grand Total Columns.

b. Mill Consumption is taken from pages 70 and 71 of the 1989 April ***Fiber Organon.*** Glass and Other Fibers are excluded.

c. Mill Consumption is taken from page 94 of the 1989 May ***Fiber Organon.***

d. Source: Japan Chemical Fibers Association

e. Source: C.I.R.F.S. The EEC Countries in this table are: Belgium, France, Italy, Luxembourg, Netherlands, Germany, Fed. Rep. of and the U.K.

f. Source: Manufactured: Taiwan Man-Made Fiber Industries Association
Cotton: Secretariat of the International Cotton Advisory Committee.
Wool: Commonwealth Secretariat International Wool Textile Organization.

U.S. MANUFACTURED FIBER TEXTILE TRADE BALANCE: AN OVERVIEW

In 1988, the U.S. balance of trade in manufactured fiber and manufactures improved over the import balance level of 1987. Imports themselves decreased 65 million pounds or 3% to reach 2127 million pounds. Exports increased by 220 million pounds to reach 1564 million pounds. The net balance therefore is an import balance of 562 million pounds, 283 million pounds below the import balance of 848 million pounds in 1987. (See Table 3)

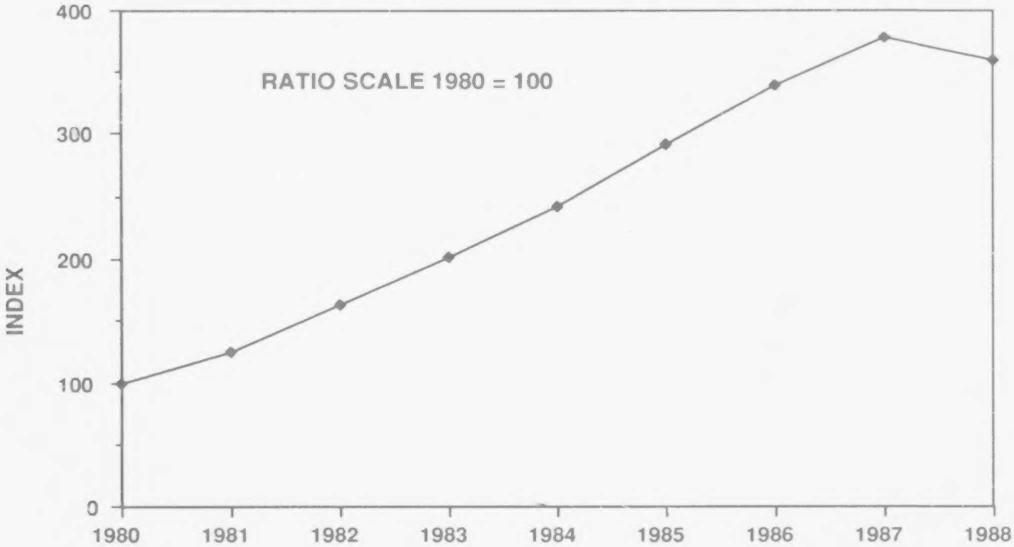
In 1988, the garment import trade balance was 903 million pounds, a decrease of 48 million pounds or 5% from the 951 million pound import trade balance in 1987. (See Table 5B)

As shown in Graph 1, the index of garment import trade balance has grown steadily since 1980. With 1980 as being the base point of 100, the 1988 index dropped to 359 from the 1987 level of 378.

The U.S. balance of trade in manufactures, excluding garments, was an import balance of 148 million pounds. The imports themselves at 745 million pounds were 4% below the 772 million pounds imported in 1987. However, a 87 million pound increase in exports produced a corresponding reduction in the import trade balance for 1988.

Manufactured fibers alone experienced a 489 million pound export trade balance. That figure is 123 million pounds above the 1987 quantity, but still well below the levels of the early 1980's. (See Graph 3)

GRAPH 1: INDEX OF U.S. GARMENT IMPORT TRADE BALANCE 1980 - 1988



NOTE: Indexed from import balance in million pounds from Table 5B

GRAPH 2:
U.S. BALANCE OF TRADE IN MANUFACTURED FIBER & MANUFACTURES
1980 - 1988

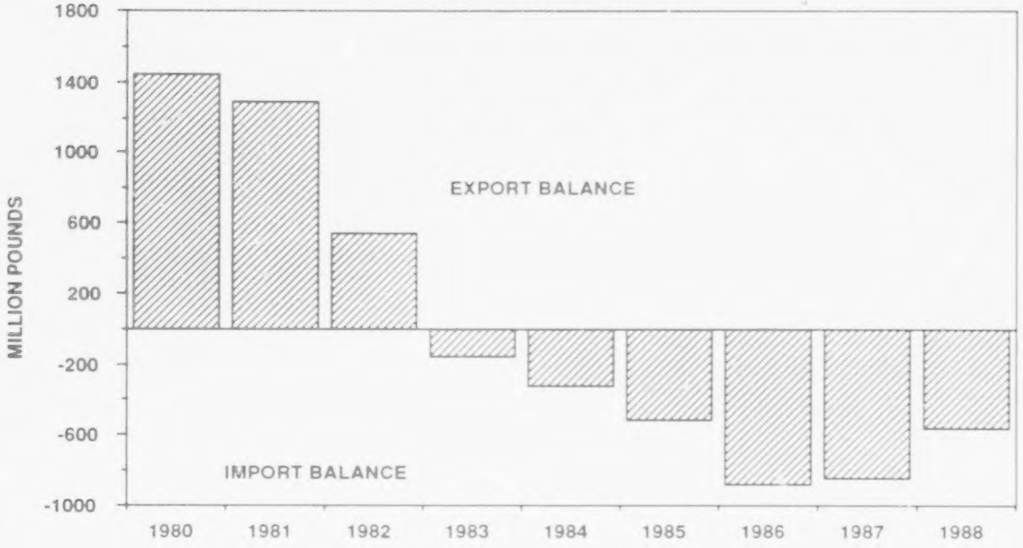


TABLE 3:
U.S. IMPORTS, EXPORTS & BALANCE IN MANUFACTURED FIBER & MANUFACTURES
1980-1988
MILLION POUNDS

YEAR	IMPORTS	EXPORTS	BALANCE[a]
1980	636.3	2079.8	1443.5 E
1981	796.4	2088.7	1292.3 E
1982	831.5	1374.3	542.8 E
1983	1287.9	1130.8	157.1 I
1984	1641.8	1316.0	325.8 I
1985	1822.4	1316.7	505.7 I
1986	2086.6	1204.6	882.0 I
1987	2192.0	1344.5	847.5 I
1988	2126.7	1564.3	562.4 I

SOURCE: U.S. Census Bureau Report IM146 and EM546. U.S. Department of Agriculture, ***Cotton & Wool Outlook and Situation Report***.

a. I Import Balance. E Export Balance

GRAPH 3:
U.S. BALANCE OF TRADE IN MANUFACTURED FIBER VS. MANUFACTURED FIBER MANUFACTURES
1980 - 1988

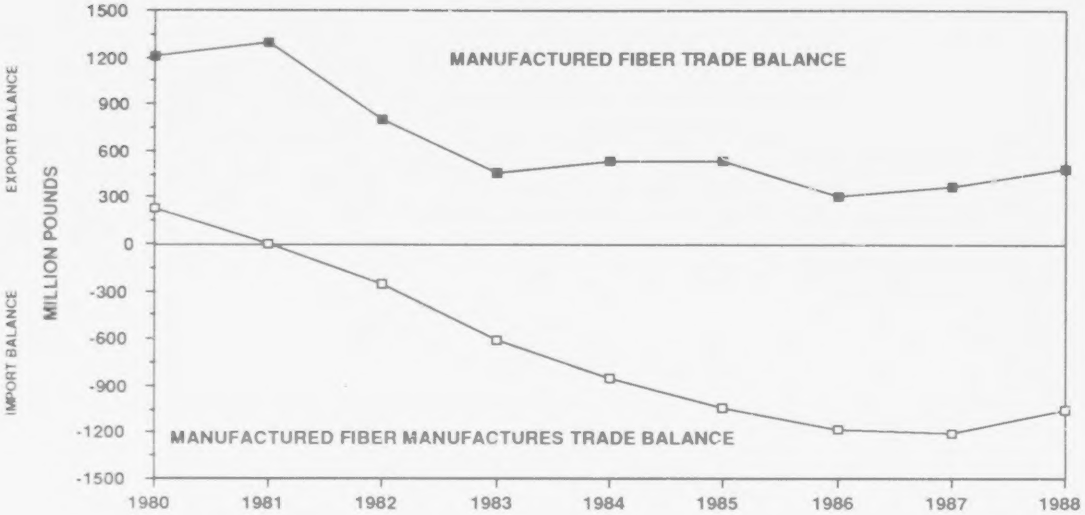


TABLE 4A:
U.S. IMPORTS, EXPORTS & BALANCE IN MANUFACTURED FIBER
1980-1988

MILLION POUNDS

YEAR	IMPORTS	EXPORTS	BALANCE [a]
1980	95.7	1303.3	1212.6 E
1981	157.3	1451.0	1293.7 E
1982	133.5	935.8	802.3 E
1983	218.5	670.1	451.6 E
1984	299.2	828.1	528.9 E
1985	331.4	867.6	536.2 E
1986	383.7	685.3	301.6 E
1987	386.6	752.6	366.0 E
1988	391.0	879.7	488.7 E

TABLE 4B:
U.S. IMPORTS, EXPORTS & BALANCE IN MANUFACTURED FIBER MANUFACTURES
1980-1988

MILLION POUNDS

YEAR	IMPORTS	EXPORTS	BALANCE [a]
1980	540.6	771.5	230.9 E
1981	639.1	637.7	1.4 I
1982	698.0	438.5	259.5 I
1983	1069.4	460.7	608.7 I
1984	1342.6	487.9	854.7 I
1985	1491.0	449.1	1041.9 I
1986	1702.9	519.3	1183.6 I
1987	1805.4	591.9	1213.5 I
1988	1735.7	684.6	1051.1 I

SOURCE: U.S. Census Bureau Report IM146 and EM546. U.S. Department of Agriculture, ***Cotton & Wool Outlook and Situation Report.***
a. I Import Balance **E** Export Balance

GRAPH 4:
U.S. IMPORT & EXPORT BALANCE IN MANUFACTURED FIBER MANUFACTURES
1980 - 1988

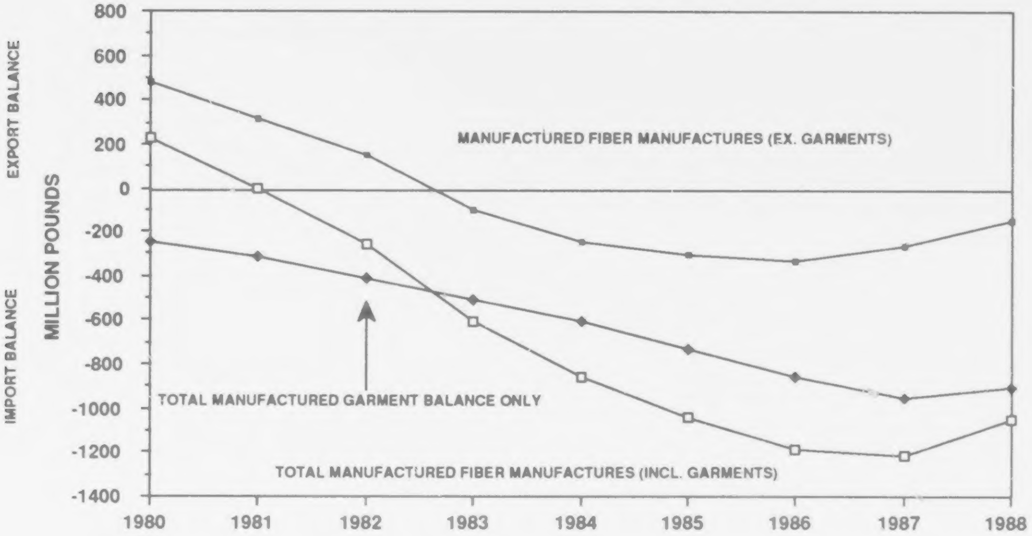


TABLE 5A:
U.S. IMPORTS, EXPORTS & BALANCE IN MANUFACTURED FIBER MANUFACTURES (EXCLUDING TRADE IN GARMENTS)
1980-1988

MILLION POUNDS

YEAR	IMPORTS	EXPORTS	BALANCE [a]
1980	162.0	644.4	482.4 E
1981	202.0	517.0	315.0 E
1982	211.5	363.3	151.8 E
1983	493.4	389.9	103.5 I
1984	655.1	408.4	246.7 I
1985	690.9	383.9	307.0 I
1986	773.6	444.4	329.2 I
1987	772.2	509.3	262.9 I
1988	744.7	596.5	148.2 I

TABLE 5B:
U.S. GARMENTS TRADE BALANCE
1980-1988

MILLION POUNDS

YEAR	BALANCE [a]
1980	251.5 I
1981	315.4 I
1982	411.3 I
1983	505.2 I
1984	608.0 I
1985	734.9 I
1986	854.4 I
1987	950.6 I
1988	902.9 I

SOURCE: U.S. Census Bureau Report IM146 and EM546. U.S. Department of Agriculture, ***Cotton & Wool Outlook and Situation Report.***

a. I Import Balance E Export Balance

TABLE 6:
U.S. IMPORTS, EXPORTS & BALANCE IN MANUFACTURED FIBERS & MANUFACTURES, COTTON MANUFACTURES & WOOL MANUFACTURES
THOUSAND POUNDS

PRODUCTS	1985			1986			1987			1988		
	IMP	EXP	BAL [a]	IMP	EXP	BAL [a]	IMP	EXP	BAL [a]	IMP	EXP	BAL [a]
ARTIFICIAL (RAYON+ACETATE)												
YARN+MONOFILAMENTS	13923	10629	3294 I	16963	7346	9617 I	12811	6427	6384 I	17641	12657	4984 I
STAPLE+TOW	12308	37824	25516 E	17428	32566	15138 E	13824	34502	20678 E	20401	24555	4154 E
WASTE	479	1207	728 E	121	2222	2101 E	85	1090	1005 E	7	. 1921	1914 E
SUBTOTAL	**26710**	**49660**	**22950 E**	**34512**	**42134**	**7622 E**	**26720**	**42019**	**15299 E**	**38049**	**39133**	**1084 E**
SYNTHETIC (NONCELLULOSIC) FIBERS												
YARN+MONOFILAMENTS	104561	325803	221242 E	126057	255572	129515 E	123930	231182	107252 E	116278	297078	180800 E
STAPLE+TOW	159446	416512	257066 E	182790	263914	81124 E	188985	365929	176944 E	196154	399100	202946 E
WASTE	40673	75645	34972 E	40303	123696	83393 E	46957	113527	66570 E	40504	144392	103888 E
SUBTOTAL	**304680**	**817960**	**513280 E**	**349150**	**643182**	**294032 E**	**359872**	**710638**	**350766 E**	**352936**	**840570**	**487634 E**
TOTAL FIBER [b]	**331390**	**867620**	**536230 E**	**383662**	**685316**	**301654 E**	**386592**	**752657**	**366065 E**	**390985**	**879703**	**488718 E**
MANUFACTURED FIBER MANUFACTURES [c]												
SLIVER, TOPS & ROVING	2057	8543	6486 E	3424	4632	1208 E	5793	5191	602 I	4053	11962	7909 E
SPUN YARNS	45541	37748	7793 I	64540	38228	26312 I	63516	42737	20779 I	43423	48351	4928 E
THREAD & CRAFT YARNS	9670	4773	4897 I	4730	5042	312 E	8850	5967	2883 I	7758	6225	1533 I
TIRE CORD & FABRIC	915	30350	29435 E	2676	46290	43614 E	5599	53760	48161 E	11454	46347	34893 E
WOVEN FABRIC	186198	124873	61325 I	207180	134581	72599 I	182515	152653	29862 I	179234	169309	9925 I
KNIT FABRICS	9700	11832	2132 E	12496	11719	777 I	14569	11607	2962 I	11472	14572	3100 E
NARROW FABRICS	18449	21875	3426 E	25308	37949	12641 E	14636	45647	31011 E	14910	62221	47311 E
APPAREL - KNIT - NOT KNIT	341372 458731	}65225	734878 I	431179 498179	}74906	854452 I	485359 547865	}82532	950692 I	443031 548003	}88132	902902 I
HOME FURNISHINGS OTHER	}418393	70291 73632	}274470 I	}453240	86817 79141	}287282 I	}476740	100989 90785	}284966 I	}472362	138262 99370	}234730 I
TOTAL MANUFACTURES	**1491026**	**449142**	**1041884 I**	**1702952**	**519305**	**1183647 I**	**1805442**	**591868**	**1213574 I**	**1735700**	**684751**	**1050949 I**
TOTAL MANUFACTURED FIBER & MANUFACTURES	**1822416**	**1316762**	**505654 I**	**2086614**	**1204621**	**881993 I**	**2192034**	**1344525**	**847509 I**	**2126685**	**1564454**	**562231 I**
COTTON MANUFACTURES [d]	**1629166**	**213224**	**1415942 I**	**1910477**	**274828**	**1635649 I**	**2335692**	**298004**	**2037688 I**	**2118775**	**330266**	**1788509 I**
WOOL MANUFACTURES[e]	**264822**	**17761**	**247061 I**	**275623**	**15970**	**259653 I**	**276092**	**23461**	**252631 I**	**242384**	**30594**	**211790 I**

SOURCES: The manufactured fiber import and export data are from the U.S. Census Bureau Reports IM146 and EM546.

The manufactured, cotton and wool manufactures data are from U.S. Department of Agriculture ***"Cotton and Wool Outlook Situation."***

The total manufactured fiber and manufactures import, export and balance data of this table cover the artificial (cellulosic) and synthetic (noncellulosic) fibers only; glass fiber is excluded.

a. **E** Export Balance; **I** Import Balance.

b. The fibers included are shown as ***"Total Manufactured Fiber Above"*** on pages 232 and 233 of this issue.

c. Manufactured fiber equivalent.

d. Raw cotton equivalent. Data are similiar to those on page 183 of the August 1989 ***FIBER ORGANON***.

e. Raw wool content. The data differ from those on page 183 of the August 1989 ***FIBER ORGANON*** to the extent that noils and waste are included here.

TABLE 7:
SUMMARY OF U.S. IMPORTS, EXPORTS & BALANCE IN MANUFACTURED FIBERS & MANUFACTURES
MILLION POUNDS

ITEM	1985	1986	1987	1988
IMPORTS				
TOTAL FIBER [a]	331.4	383.7	386.6	391.0
TOTAL MANUFACTURES [b]	1491.0	1702.9	1805.4	1735.7
TOTAL IMPORTS	**1822.4**	**2086.6**	**2192.0**	**2126.7**
EXPORTS				
TOTAL FIBER [a]	867.6	685.3	752.6	879.7
TOTAL MANUFACTURES [b]	449.1	519.3	591.9	684.6
TOTAL EXPORTS	**1316.7**	**1204.6**	**1344.5**	**1564.3**
BALANCE [c]	505.7 I	882.0 I	847.5 I	562.4 I
U.S. PRODUCTION [d]	8390.3	8718.6	9170.0	9382.1
U.S. NET AVAILABLE	8896.0	9600.6	10017.5	9944.5
IMPORTS AS % OF PRODUCTION	*21.7*	*23.9*	*23.9*	*22.7*
EXPORTS AS % OF PRODUCTION	*15.7*	*13.8*	*14.7*	*16.7*

a. As shown in Total Fiber in Table 6 above

b. As shown in Total Manufactures in Table 6 above

c. **E** Export Balance; **I** Import Balance

d. Production of yarn, monofilaments, staple+tow (excluding glass fiber) and producers' shipments of waste from the March 1989 ***Textile Organon***, pages 48 and 52

TABLE 8:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	1989												YEAR TO DATE	
ITEMS & COUNTRY	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	**1989**	**1988**
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	6	1	4	0	139	0					150	
BRAZIL	53	110	55	0	54	76	22	53					423	
CANADA	745	619	686	613	656	532	399	634					4884	
CHILE	44	22	22	22	22	44	48	0					224	
GERMANY, FED. REP. OF	784	515	697	452	436	362	521	928					4695	
IRELAND	37	0	36	138	34	36	107	69					457	
JAPAN	55	121	122	185	110	206	57	81					937	
KOREA, REP. OF	66	22	0	56	0	22	11	3					180	
MEXICO	156	99	171	45	153	144	213	141					1122	
NETHERLANDS	61	239	261	173	204	380	262	413					1993	
UNITED KINGDOM	75	68	113	135	75	66	84	40					656	
ALL OTHER COUNTRIES [a]	40	24	30	8	168	62	363	79					774	
TOTAL ARTIFICIAL YARN	**2116**	**1839**	**2199**	**1828**	**1916**	**1930**	**2226**	**2441**					**16495**	**10819**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	323	422	377	226	381	430	394	568					3121	
CANADA	4757	1990	4093	3462	3409	2370	1638	4140					25859	
CHINA, PRC	104	0	369	0	752	0	110	0					1335	
GERMANY, DEM. REP.	0	0	95	43	82	80	44	0					344	
GERMANY, FED. REP. OF	68	67	95	116	124	142	208	179					999	
JAPAN	150	521	422	263	107	60	84	61					1668	
SWITZERLAND	9	25	41	37	65	40	286	7					510	
TAIWAN	28	0	28	88	320	0	264	176					904	
UNITED KINGDOM	265	225	1	47	69	42	67	135					851	
ALL OTHER COUNTRIES [b]	273	241	123	138	111	255	42	261					1444	
TOTAL ARTIFICIAL STAPLE+TOW	**5977**	**3491**	**5644**	**4420**	**5420**	**3419**	**3137**	**5527**					**37035**	**11315**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
ARGENTINA	0	30	46	0	11	38	1479	1					1605	
BELGIUM	0	56	115	171	343	236	568	685					2174	
BRAZIL	106	63	170	30	140	201	57	191					958	
CANADA	3437	2926	2969	2399	3327	3304	2445	3580					24387	
COSTA RICA	252	487	591	433	415	517	537	515					3747	
ECUADOR	91	26	144	0	58	23	71	33					446	
FRANCE	1180	1151	1079	1159	1159	1085	972	799					8584	
GERMANY, FED. REP. OF	2231	2204	2641	2514	2357	3691	2202	1988					19828	
ISRAEL	299	217	172	149	285	244	117	124					1607	
ITALY	924	323	873	859	1031	132	489	526					5157	
JAPAN	469	610	568	609	548	502	845	1110					5261	
KOREA, REP. OF	10	49	7	81	98	42	89	0					376	
MEXICO	1447	2222	2385	1857	2527	2911	2490	2806					18645	
NETHERLANDS	68	193	267	338	69	63	398	104					1500	
SINGAPORE	0	25	0	33	0	33	16	16					123	
TAIWAN	50	175	650	1296	2844	3217	3133	2680					14045	
THAILAND	65	64	69	67	63	171	124	142					765	
UNITED KINGDOM	1482	1357	1409	1649	1790	1506	1635	2014					12842	
ALL OTHER COUNTRIES [c]	36	175	221	260	67	330	189	324					1602	
TOTAL SYNTHETIC YARN	**12147**	**12353**	**14376**	**13904**	**17132**	**18246**	**17856**	**17638**					**123652**	**78141**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	3	9	13	1	0	79	0					105	
AUSTRALIA	31	160	1	82	16	43	149	78					560	
BELGIUM	47	99	60	56	67	7	7	378					721	
CANADA	1413	737	1481	1489	1292	874	622	818					8726	
FRANCE	230	304	253	405	388	336	136	519					2571	
GERMANY, FED. REP. OF	1985	1758	1318	1293	1491	1780	1084	2057					12766	
INDIA	0	0	3772	3400	709	49	1772	2893					12595	
IRELAND	280	480	305	348	0	36	0	0					1449	
ITALY	482	394	206	46	61	34	70	193					1486	
JAPAN	1773	1757	2303	2770	2429	1826	1929	2894					17681	
KOREA, REP. OF	2297	3387	3933	4165	5687	4876	4806	2638					31789	
MEXICO	1049	372	420	1016	783	462	579	797					5478	
NETHERLANDS	31	103	99	81	56	105	21	617					1113	
SPAIN	8	0	178	39	65	128	0	0					418	
SWITZERLAND	146	165	134	166	125	42	242	214					1234	
TAIWAN	262	235	215	808	917	2057	2093	1994					8581	
TURKEY	18	0	0	0	111	37	90	105					361	
UNITED KINGDOM	2318	2304	1643	2107	2671	1229	1645	810					14727	
ALL OTHER COUNTRIES [d]	2	53	45	56	29	28	0	241					454	
TOTAL SYNTHETIC STAPLE+TOW	**12372**	**12311**	**16375**	**18340**	**16898**	**13949**	**15324**	**17246**					**122815**	**132020**

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a. Belgium 386, Italy 110, Taiwan 67, China, PRC 51, France 43, Greece 41, Norway 32, Singapore 23, Egypt 21.

b. Australia 217, Italy 193, Poland 189, Romania 175, Korea, Rep. of 171, France 121, Sweden 115, Finland 76, Belgium 73, Spain 47, Peru 37, India 18, Thailand 11, Mexico 1

c. Portugal 340, Egypt 258, Ireland 253, Turkey 187, Austria 112, Peru 99, Spain 66, Switzerland 62, Australia 49, El Salvador 35, Nigeria 35, Morocco 26, Hong Kong 24, Honduras 20, Sweden 12, Colombia 9, Denmark 9, Greece 6

d. Israel 169, Romania 116, Hong Kong 91, Germany, Dem. Rep. 42, Brazil 34, China, PRC 2

Effective January 1,1989 the U.S. Manufactured Imports for Consumption by Country of Origin are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

Selected U.S. Manufactured Imports for Consumption by Country of Origin for 1988 are published in the ***Textile Organon***, February 1989 issue, page 31

TABLE 9:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

ITEM	1989												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	114	266	408	205	111	192	176	252					1724	
TEXTURED	180	1	0	24	0	27	497	58					787	
OTHER	1726	1532	1671	1449	1732	1673	1402	2036					13221	
MONOFILAMENTS & STRIPS	96	40	120	150	73	38	151	95					763	
SUBTOTAL ABOVE	**2116**	**1839**	**2199**	**1828**	**1916**	**1930**	**2226**	**2441**					**16495**	**10819**
STAPLE	5924	3481	5624	4403	5312	3419	3113	5451					36727	
TOW	47	0	0	7	103	0	24	72					253	
TOPS	6	10	20	10	5	0	0	4					55	
SUBTOTAL ABOVE	**5977**	**3491**	**5644**	**4420**	**5420**	**3419**	**3137**	**5527**					**37035**	**11315**
WASTE	**18**	**122**	**47**	**213**	**0**	**0**	**0**	**94**					**494**	**5**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1037	1093	1506	1578	1829	1964	1480	1706					12193	
TEXTURED														
UP TO 450 DENIER	385	217	359	285	319	315	333	428					2641	
OVER 450 DENIER	1311	1054	1428	1294	1241	654	943	865					8790	
OTHER	3820	3306	3786	3845	4296	5210	4007	4096					32366	
MONOFILAMENTS & STRIPS	72	159	58	113	143	116	120	63					844	
SUBTOTAL ABOVE	**6625**	**5829**	**7137**	**7115**	**7828**	**8259**	**6883**	**7158**					**56834**	**26128**
POLYESTER														
HIGH TENACITY	957	880	909	488	797	703	361	603					5698	
TEXTURED	883	1673	1738	1766	1775	2385	1747	2230					14197	
POY	0	40	642	1088	2744	3214	3170	2407					13305	
OTHER	1152	1481	1719	1740	1324	1567	1551	1815					12349	
MONOFILAMENTS & STRIPS	65	80	34	55	24	70	73	65					466	
SUBTOTAL ABOVE	**3057**	**4154**	**5042**	**5137**	**6664**	**7939**	**6902**	**7120**					**46015**	**24064**
OTHER SYNTHETIC FILAMENT														
TEXTURED	2057	1685	1550	1054	2074	1555	1199	1981					13155	
OTHER	261	386	339	274	171	136	1049	1015					3631	
MONOFILAMENTS & STRIPS	147	299	308	324	395	357	1823	364					4017	
SUBTOTAL ABOVE	**2465**	**2370**	**2197**	**1652**	**2640**	**2048**	**4071**	**3360**					**20803**	**27949**
STAPLE														
NYLON	1726	1896	1845	1592	1422	1273	1445	1611					12810	
POLYESTER	5584	5594	10047	10627	10327	8674	9941	11597					72391	
ACRYLIC	1934	1028	1576	1518	1206	1511	1335	2194					12302	
POLYPROPYLENE	44	55	197	351	93	220	298	55					1313	
OTHER	172	1040	651	740	167	165	259	245					3439	
TOW														
NYLON	237	433	257	504	341	315	225	524					2836	
POLYESTER	47	78	131	49	140	114	31	32					622	
ACRYLIC	2023	1709	1127	2522	2868	1462	1574	837					14122	
OTHER	117	120	146	0	0	14	0	15					412	
TOPS	488	358	398	437	334	201	216	136					2568	
SUBTOTAL ABOVE	**12372**	**12311**	**16375**	**18340**	**16898**	**13949**	**15324**	**17246**					**122815**	**132020**
WASTE														
NYLON	1971	1804	1754	2087	1949	2027	1769	2266					15627	
POLYESTER	999	340	730	1029	846	973	1475	2106					8498	
OTHER	396	725	477	486	547	389	326	675					4021	
TOTAL MANUFACTURED FIBERS ABOVE	**35996**	**32985**	**41602**	**42307**	**44708**	**40933**	**42113**	**47993**					**328637**	**230066**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	229	84	46	26	74	73	105	171					808	
SPUN YARN	492	396	370	287	418	406	466	798					3633	
SPUN YARNS														
SYNTHETIC	517	686	517	258	677	1019	937	801					5412	
ARTIFICIAL	0	0	0	0	0	0	0	0					0	
PUT UP FOR RETAIL SALE	71	50	27	37	74	39	128	63					489	
GRAND TOTAL ABOVE	**37305**	**34201**	**42562**	**42915**	**45951**	**42470**	**43749**	**49826**					**338979**	**312165**

SOURCE: U.S. Census Bureau Report IM145X.

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U.S. Monthly Imports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 32.

TABLE 10:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

	1989												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	9	13	45	26	30	16	74	117					330	
TEXTURED	463	17	29	1	29	28	1009	26					1602	
OTHER	694	63	18	60	21	15	51	30					952	
MONOFILAMENTS & STRIPS	90	0	7	93	5	9	21	12					237	
SUBTOTAL ABOVE	**1256**	**93**	**99**	**180**	**85**	**68**	**1155**	**185**					**3121**	**8230**
STAPLE	2827	1786	1325	920	1659	1786	2084	2167					14554	
TOPS	94	0	8	129	53	48	7	101					440	
SUBTOTAL ABOVE	**2921**	**1786**	**1333**	**1049**	**1712**	**1834**	**2091**	**2268**					**14994**	**16048**
WASTE	**1303**	**559**	**1587**	**1116**	**1635**	**1108**	**1021**	**551**					**8880**	**1650**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	9331	9410	7884	16614	6326	6999	11613	7987					76164	
TEXTURED														
UP TO 450 DENIER	522	586	719	666	819	1271	488	856					5927	
OVER 450 DENIER	4703	5051	5459	4430	4096	3626	3176	4030					34574	
OTHER	2038	2103	2133	2188	2571	2003	1669	2028					16733	
MONOFILAMENTS & STRIPS	239	258	187	131	204	303	282	134					1738	
SUBTOTAL ABOVE	**16836**	**17408**	**16382**	**24029**	**14016**	**14202**	**17228**	**15035**					**135136**	**104956**
POLYESTER														
HIGH TENACITY	3031	3122	2773	3282	4214	4080	3334	3490					27326	
TEXTURED	3651	3677	2385	2939	3208	3577	1341	2557					23335	
POY	939	1250	2204	1446	629	528	2782	289					10067	
OTHER	1007	584	829	983	777	1186	933	722					7021	
MONOFILAMENTS & STRIPS	208	213	203	132	302	332	275	346					2011	
SUBTOTAL ABOVE	**8836**	**9846**	**8394**	**8782**	**9130**	**9703**	**8665**	**7404**					**69760**	**58669**
OTHER SYNTHETIC FILAMENT														
TEXTURED	1033	457	872	903	992	634	980	995					6866	
OTHER	1342	1471	1735	1730	1559	1332	1724	1527					12420	
MONOFILAMENTS & STRIPS	486	421	771	1317	927	987	687	860					6456	
SUBTOTAL ABOVE	**2861**	**2349**	**3378**	**3950**	**3478**	**2953**	**3391**	**3382**					**25742**	**30049**
STAPLE														
NYLON	2605	3265	3262	2629	3280	3985	2532	1797					23355	
POLYESTER	14048	10762	12940	12923	10675	7497	8203	8432					85480	
ACRYLIC	3326	5674	6643	6896	6342	9369	8569	6419					53238	
POLYPROPYLENE	1336	1569	1129	2264	2714	2477	1995	1454					14938	
OTHER	836	2036	1489	2562	1734	1757	2004	1412					13830	
TOW														
NYLON	31	50	50	108	141	86	56	61					583	
POLYESTER	37	564	472	634	7	621	541	113					2989	
ACRYLIC	1037	1761	2185	3302	1467	829	1070	899					12550	
OTHER	161	16	34	503	9	7	77	13					820	
TOPS	847	964	1224	2191	3092	1230	1557	3000					14105	
SUBTOTAL ABOVE	**24264**	**26661**	**29428**	**34012**	**29461**	**27858**	**26604**	**23600**					**221888**	**263465**
WASTE														
NYLON	2127	2118	2159	2883	2102	2007	1852	2750					17998	
POLYESTER	4369	3980	3189	5535	3685	2726	3631	2444					29559	
OTHER	5113	6957	8080	6731	7071	5876	8304	5850					53982	
TOTAL MANUFACTURED FIBERS ABOVE	**69886**	**70757**	**74029**	**88267**	**72375**	**68335**	**73942**	**63469**					**581060**	**568400**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	13	51	43	74	9	93	41	77					401	
SPUN YARN	0	0	0	0	0	0	0	0					0	
SPUN YARNS														
SYNTHETIC	732	959	1152	1172	1944	1089	856	1532					9436	
ARTIFICIAL	0	0	0	0	0	0	0	0					0	
PUT UP FOR RETAIL SALE	606	740	923	580	532	435	536	704					5056	
GRAND TOTAL ABOVE	**71237**	**72507**	**76147**	**90093**	**74860**	**69952**	**75375**	**65782**					**595953**	

SOURCE: U.S. Census Bureau Report EM522.

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U.S. Monthly Exports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 33.

TABLE 11:
U.S. IMPORTS OF MANUFACTURED FIBERS

ITEM	COMMODITY NUMBER AS OF 1/1/87	THOUSAND POUNDS					THOUSAND DOLLARS				
		1984	1985	1986	1987	1988	1984	1985	1986	1987	1988
ARTIFICIAL (CELL.) FIBERS											
YARN - SINGLES											
TEXTURED	310.0106 & .0206	1571	190	518	305	1483	940	267	610	511	2278
OTHER	310.0130 & .0230[a]	8245	12951	15669	12267	15238	12924	19129	24795	19226	29005
MONOFILAMENTS	309.0810 & .0610	5	19	20	12	7	20	44	68	77	59
STRIPS, $1/LB. & UNDER	309.2000*	160	763	756	227	913	88	624	646	196	726
SUBTOTAL ABOVE		**9981**	**13923**	**16963**	**12811**	**17641**	**13972**	**20064**	**26119**	**20010**	**32068**
STAPLE	309.4320 & .4325	15388	11286	16453	12931	19037	10320	6844	12678	11128	15491
GROUPED FILAMENTS	309.3010 & .3310	1605	1022	975	893	1364	2619	1471	1305	1600	2105
SUBTOTAL ABOVE		**16993**	**12308**	**17428**	**13824**	**20401**	**12939**	**8315**	**13983**	**12728**	**17596**
WASTE, ADVANCED & NOT ADVANCED	**309.6615 & .7510**	**530**	**479**	**121**	**85**	**7**	**323**	**263**	**79**	**25**	**14**
SYNTHETIC (NONCELL.) FIBERS											
YARN - SINGLES											
TEXTURED - NYLON											
LESS THAN 450 DENIER	310.0107 & .0207	17966	32352	2601	2035	2679	26141	35244	5025	4170	5266
450 DENIER AND OVER	310.0108 & .0208			33994	26755	17721			37305	29921	22961
- POLYESTER	310.0110 & .0210	10806	16642	14590	15580	15060	10513	14653	13029	15403	14704
- OTHER	310.0114 & .0214	8939	14723	20477	24088	25188	10536	15732	20187	23874	27436
OTHER - NYLON	310.0149 & .0249	30192	18350	22521	22839	17773	39222	23747	30781	36679	30432
- POLYESTER	310.0150 & .0250	15698	16728	22465	19425	21596	21121	20624	28831	25656	33168
- OTHER	310.0170 & .0270[b]	2468	2520	5130	6777	8204	4139	4203	7837	8804	15235
MONOFILAMENTS	309.0200 & .0330[c]	2857	2059	2722	3804	4801	8817	5537	8197	12236	17498
STRIPS, OVER $1/LB	309.2100 & .2500*	1066	1187	1557	2627	3256	5844	5886	6487	8601	11676
SUBTOTAL ABOVE		**89992**	**104561**	**126057**	**123930**	**116278**	**126333**	**125626**	**157679**	**165344**	**178376**
STAPLE - NYLON	309.4331 & .4351	38281	38544	51959	38955	21944	36579	34292	26229	42829	27622
POLYESTER	309.4336 & .4361	22890	26800	40785	70721	73198	13272	15841	13456	40278	50045
- ACRYLIC	309.4366	13541	17611	17442	15716	15389	12568	16396	7799	13096	18946
- OLEFIN	309.4371	2213	5732	1871	514	2075	1630	3879	289	400	1072
- OTHER	309.4341 & .4390	15412	25515	14238	12992	17778	11326	21283	4258	12810	23992
GROUPED FILAMENTS											
NYLON	309.3030 & .3200	23129	29514	38536	32248	40211	33524	40769	58505	50546	64708
POLYESTER	309.3040 & .3340	7104	4980	2354	3139	4355	6569	4715	2392	3767	6242
ACRYLIC	309.3050 & .3350	6929	7518	13065	13000	19418	15116	16548	31792	31152	48130
OTHER	309.3065 & .3365	1660	3231	2540	1700	1786	2371	4313	3339	2991	2706
SUBTOTAL ABOVE		**131159**	**159446**	**182790**	**188985**	**196154**	**132955**	**158036**	**148059**	**197869**	**243463**
WASTE, NOT ADVANCED											
- NYLON	309.6625	31205	27162	22377	26926	22512	13876	10793	7755	8412	8582
- POLYESTER	309.6630	8042	7149	6304	9170	10113	1325	1143	878	1385	1961
- ACRYLIC	309.6645	39	283	328	306	167	8	48	182	70	62
- OTHER	309.6660	4074	2072	8442	4666	2577	2027	607	2142	895	502
NOILS & GARNETTED FIBERS	309.7000*	458	155	164	162	109	254	101	123	83	57
OTHER WASTE, ADVANCED	309.7525 - .7555	6729	3852	2688	5727	5026	1912	890	702	1894	1353
SUBTOTAL ABOVE		**50547**	**40673**	**40303**	**46957**	**40504**	**19402**	**13582**	**11782**	**12739**	**12517**
TOTAL MANUFACTURED ABOVE		**299202**	**331390**	**383662**	**386592**	**390985**	**305924**	**325886**	**357701**	**408715**	**484034**
OTHER MANUFACTURED FIBER TOPS, YARN & THREAD											
YARN - PLIED											
TEXTURED - ARTIFICIAL (CELL.)	310.1506	1	1	1	5	+	7	7	15	44	1
- SYNTHETIC (NONCELL.)	310.1015[d] & .1205[e]	12223	9270	10221	3999	2303	17370	9955	11926	6471	4906
OTHER - ARTIFICIAL (CELL.)	310.1030 & .1535[f]	173	390	478	553	382	723	937	1932	2622	3183
- SYNTHETIC (NONCELL.)	310.1050 & .1070[g]	2763	4032	4857	3314	3703	4447	6795	10007	7441	10053
SPUN YARN - ARTIFICIAL (CELL.)	310.4005 & .4030[h]	1724	1739	1879	1541	814	2224	2100	3105	3199	2335
- OTHER	310.4015 & .4027[i]	35583	34260	44691	37128	22206	58127	54897	75910	68943	44590
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	7517	8912	16759	28029	22911	16210	15640	28555	46150	42205
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	5445	9283	4593	8338	7632	18111	28952	13846	31339	29859
SLIVER, TOPS & ROVING	309.9000	4544	1941	3298	5537	3914	4792	2334	4467	7085	7530
GLASS FIBER	309.2800 & .2900[k]	23083	34690	24404	29465	26200	19203	27850	23082	29283	30562
GRAND TOTAL ABOVE		**392258**	**435908**	**494843**	**504501**	**481050**	**447138**	**475353**	**530546**	**611292**	**659258**

Source: U.S. Census Bureau Report IM146

NES - Not elsewhere specified

* These items are not reported by the Census as artificial (cellulosic) vs synthetic (noncellulosic).

Separation of artificial (cellulosic) and synthetic (noncellulosic) quantities are estimated, based primarily on average declared value.

[a] Also includes 310.0610.

[b] Also includes 310.0530, .0550, .0630 & .0650.

[c] Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

[d] There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

[e] Also includes 310.1210.

[f] Also includes 310.2110.

[g] Also includes 310.1510, .1514, .1550, .1555, .1570, .2030, .2050, .2130 & .2150.

[h] Also includes 310.5005 & .5030.

[i] Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

[j] Also includes 310.9320 & .9500.

[k] Chiefly roving. Also includes 309.9800 & .9900.

TABLE 12:
U.S. EXPORTS OF MANUFACTURED FIBERS

ITEM	COMMODITY NUMBER AS OF 1/1/87	THOUSAND POUNDS					THOUSAND DOLLARS				
		1984	1985	1986	1987	1988	1984	1985	1986	1987	1988
ARTIFICIAL (CELL.) FIBERS											
FILAMENT YARN [a]											
TEXTURED	310.0004	129	101	102	614	248	337	298	242	1323	864
OTHER [b]	310.0026	8614	10412	7002	5428	12049	10051	13859	9207	7768	16651
MONOFILAMENTS	309.0110	12	79	228	285	258	66	178	651	413	629
STRIPS	309.2210	79	37	14	100	102	85	44	16	96	86
SUBTOTAL ABOVE		**8834**	**10629**	**7436**	**6427**	**12657**	**10539**	**14379**	**10116**	**9600**	**20230**
STAPLE+TOW-RAYON	309.4222	53882	35975	30887	32781	21760	37688	25546	21840	23369	17311
STAPLE-ACETATE	309.4219	2090	1849	1679	1721	2795	2337	2535	2182	2487	3435
SUBTOTAL ABOVE	"	**55972**	**37824**	**32566**	**34502**	**24555**	**40025**	**28081**	**24022**	**25856**	**20746**
WASTE, ADVANCED & NOT ADVANCED	309.7400	**1632**	**1207**	**2222**	**1090**	**1921**	**1062**	**801**	**1822**	**939**	**706**
SYNTHETIC (NONCELL.) FIBERS											
YARN - SINGLES											
NYLON - TEXTURED	310.005 & .0007	32268	26894	24403	35048	55702	50916	39982	42863	64400	103805
- HIGH TENACITY [c]	310.0027	66732	69386	76870	78107	87142	62515	72294	81880	88840	121769
- OTHER	310.0029	13155	9357	10333	9142	12116	28217	19373	23099	22983	30285
POLYESTER - TEXTURED	310.0010	79753	135997	68753	25057	39592	93889	140792	69534	28774	51042
- HIGH TENACITY [c]	310.0032	9156	32137	23862	24961	27296	11064	29618	27087	29829	35602
- OTHER [d]	310.0034	5968	8934	2347	1794	3033	8371	9270	2410	2567	4341
OTHER - TEXTURED	310.0014	7673	10495	21122	18119	21702	12040	14470	27888	29402	32068
- OLEFIN	310.0040	340	555	1708	940	2874	485	766	1740	1087	3278
- OTHER	310.0044	5261	7766	6084	6799	6819	26909	32505	35562	40240	41958
MONOFILAMENTS, ALL DENIERS											
NYLON	309.0120	2848	2364	5116	6663	6660	10435	9221	12901	16246	17400
POLYESTER	309.0140	3794	5759	6256	12294	21016	10141	14128	13387	21050	35837
OTHER	309.0170	11047	11955	4775	7453	8765	22912	17491	20821	33736	41823
STRIPS	309.2220 & .2270	4460	4204	3943	4805	4361	11398	13903	12945	18837	13051
SUBTOTAL ABOVE		**242455**	**325803**	**255572**	**231182**	**297078**	**349292**	**413813**	**372117**	**397991**	**532259**
STAPLE - NYLON	309.4240	14904	11100	15037	23447	21440	21685	13854	17288	24690	24598
- POLYESTER	309.4242	178903	176697	111270	168127	143976	116843	112222	68239	90039	96891
- ACRYLIC	309.4245	162285	150729	58397	67074	130235	114377	100146	40763	47571	93145
- OLEFIN	309.4246	4368	6974	14623	21433	18794	4088	5754	12670	17842	16221
- OTHER	309.4247	8555	10695	17410	35295	24112	30566	35401	57209	77415	75185
GROUPED FILAMENTS											
NYLON	309.3220	3048	1948	3701	5483	7134	8947	4635	9480	12681	15943
POLYESTER [d]	309.3240	23693	29155	21511	20573	20438	20749	23335	18135	18148	22156
ACRYLIC	309.3250 & .3255	33807	29214	21965	24497	32971	27202	24095	19498	19459	26532
SUBTOTAL ABOVE		**429563**	**416512**	**263914**	**365929**	**399100**	**344457**	**319442**	**243282**	**307845**	**370671**
WASTE, ADVANCED & NOT ADVANCED											
- NYLON	309.7620	12465	5601	8855	11686	18840	6494	3048	4441	6047	8709
- POLYESTER	309.7630	57371	46404	59265	56412	65478	22417	17722	24245	25423	33533
- ACRYLIC	309.7640	4620	4804	6399	9569	9688	1365	1286	1372	3045	4856
- OTHER	309.7660	15203	18836	49177	35860	50386	6385	6818	15315	12710	19407
SUBTOTAL ABOVE		**89659**	**75645**	**123696**	**113527**	**144392**	**36661**	**28874**	**45373**	**47225**	**66505**
TOTAL MANUFACTURED ABOVE		**828115**	**867620**	**685316**	**752657**	**879703**	**782036**	**805390**	**696732**	**789456**	**1011117**
GLASS FIBER	309.2700 & .9700	58101	58328	61160	85378	106530	56385	57787	66134	95496	120313
GRAND TOTAL ABOVE		**886216**	**925948**	**746476**	**838035**	**986233**	**838421**	**863177**	**762866**	**884952**	**1131430**

SOURCE: U.S. Census Bureau Report EM546

a. Includes thrown, singles and plied yarn.

b. Includes rayon tire cord and cord fabric.

c. Includes noncellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

TABLE 13:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

ITEM	THOUSAND POUNDS	THOUSAND DOLLARS
	6 MOS. 1989	6 MOS. 1989
ARTIFICIAL (CELLULOSIC) FIBER		
FILAMENT YARN		
HIGH TENACITY	1296	3167
TEXTURED	232	269
OTHER	9783	17916
MONOFILAMENTS & STRIPS	517	1198
SUBTOTAL ABOVE	**11828**	**22550**
STAPLE	28163	23925
TOW	157	189
TOPS	51	138
SUBTOTAL ABOVE	**28371**	**24252**
WASTE	**400**	**156**
SYNTHETIC (NONCELLULOSIC) FIBERS		
FILAMENT YARN		
NYLON		
HIGH TENACITY	9007	15748
TEXTURED		
UP TO 450 DENIER	1880	4501
OVER 450 DENIER	6982	8303
OTHER	24263	38304
MONOFILAMENTS & STRIPS	661	2460
SUBTOTAL ABOVE	**42793**	**69316**
POLYESTER		
HIGH TENACITY	4734	6704
TEXTURED	10220	10651
POY	7728	6232
OTHER	8983	14290
MONOFILAMENTS & STRIPS	328	704
SUBTOTAL ABOVE	**31993**	**38581**
OTHER SYNTHETIC FILAMENT		
TEXTURED	9977	11035
OTHER	1567	3129
MONOFILAMENTS & STRIPS	1830	8217
SUBTOTAL ABOVE	**13374**	**22381**
STAPLE		
NYLON	9754	13355
POLYESTER	50853	34984
ACRYLIC	8773	10174
POLYPROPYLENE	960	942
OTHER	2935	3712
TOW		
NYLON	2087	2382
POLYESTER	559	701
ACRYLIC	11711	16014
OTHER	397	405
TOPS	2216	4348
SUBTOTAL ABOVE	**90245**	**87017**
WASTE		
NYLON	11592	3663
POLYESTER	4917	1055
OTHER	3020	790
TOTAL MANUFACTURED FIBERS ABOVE	**238533**	**269761**
OTHER MFRD. FIBER YARN & THREAD		
SEWING THREAD		
FILAMENT	532	2981
SPUN YARN	2369	7034
SPUN YARNS		
SYNTHETIC	3674	6698
ARTIFICIAL	0	0
PUT UP FOR RETAIL SALE	298	1499
GRAND TOTAL ABOVE	**245406**	**287973**

SOURCE: U.S. Census Bureau Report IM146

Effective January 1, 1989 the U.S. Imports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering artificial (cellulosic) and synthetic (noncellulosic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

TABLE 14:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

ITEM	THOUSAND POUNDS	THOUSAND DOLLARS
	6 MOS. 1989	6 MOS. 1989
ARTIFICIAL (CELLULOSIC) FIBER		
FILAMENT YARN		
HIGH TENACITY	139	432
TEXTURED	567	1004
OTHER	871	849
MONOFILAMENTS & STRIPS	204	355
SUBTOTAL ABOVE	**1781**	**2640**
STAPLE	10303	9673
TOPS	332	87
SUBTOTAL ABOVE	**10635**	**9760**
WASTE	**7308**	**3344**
SYNTHETIC (NONCELLULOSIC) FIBERS		
FILAMENT YARN		
NYLON		
HIGH TENACITY	56564	74729
TEXTURED		
UP TO 450 DENIER	4583	15640
OVER 450 DENIER	27368	51875
OTHER	13036	30172
MONOFILAMENTS & STRIPS	1322	1842
SUBTOTAL ABOVE	**102873**	**174258**
POLYESTER		
HIGH TENACITY	20502	27706
TEXTURED	19437	25857
POY	6996	11294
OTHER	5366	7697
MONOFILAMENTS & STRIPS	1390	3252
SUBTOTAL ABOVE	**53691**	**75806**
OTHER SYNTHETIC FILAMENT		
TEXTURED	4891	7717
OTHER	9169	41058
MONOFILAMENTS & STRIPS	4909	14787
SUBTOTAL ABOVE	**18969**	**63562**
STAPLE		
NYLON	19026	22334
POLYESTER	68845	51174
ACRYLIC	38250	26692
POLYPROPYLENE	11489	11626
OTHER	10414	39865
TOW		
NYLON	466	1352
POLYESTER	2335	3526
ACRYLIC	10581	8659
OTHER	730	1775
TOPS	9548	12120
SUBTOTAL ABOVE	**171684**	**179123**
WASTE		
NYLON	13396	5435
POLYESTER	23484	11358
OTHER	39828	14557
TOTAL MANUFACTURED FIBERS ABOVE	**443649**	**539843**
OTHER MFRC. FIBER YARN & THREAD		
SEWING THREAD		
FILAMENT	283	1173
SPUN YARN	0	0
SPUN YARNS		
SYNTHETIC	7048	11135
ARTIFICIAL	0	0
PUT UP FOR RETAIL SALE	3816	6641
GRAND TOTAL ABOVE	**454796**	**558792**

SOURCE: U.S. Census Bureau Report EM522

Effective January 1,1989 the U.S. Exports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering artificial (cellulosic) and synthetic (noncellulosic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

TABLE 15:
SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION
THOUSAND POUNDS

COUNTRY	A. ARTIFICIAL (CELL.) YARN, MONOFIL & STRIPS			B. SYNTHETIC (NONCELL.) TEXTILE YARN			C. SYNTHETIC (NONCELL.) INDUSTRIAL YARN, MONOFIL & STRIPS			D. ARTIFICIAL (CELL.) STAPLE+TOW			E. SYNTHETIC (NONCELL.) STAPLE + TOW		
	1987	1988	6 MOS. 1989	1987	1988	6 MOS. 1989	1987	1988	6 MOS. 1989	1987	1988	6 MOS. 1989	1987	1988	6 MOS. 1989
AUSTRIA	0	0	0	0	1	0	5	111	34	1	0	0	20	105	0
BELGIUM/LUXEMBOURG	678	1638	11	8684	12286	5234	28638	29558	17200	1169	2028	1144	12218	9656	8204
DENMARK	0	0	0	913	911	339	43	176	1628	10	0	1	664	1920	47
FINLAND	0	0	0	223	156	131	520	1283	450	1	2	0	233	405	188
FRANCE	21	47	0	2328	2912	670	723	1178	763	169	149	40	1841	3100	812
GERMANY, FED. REP. OF	157	174	0	1328	1782	1800	1890	2796	3938	133	121	60	4211	553	1562
GREECE	13	0	0	27	110	0	13	54	18	20	23	0	95	5	49
ICELAND	0	0	0	0	0	0	0	0	64	0	0	0	221	229	3
IRELAND	0	0	70	100	1635	81	772	739	1637	0	235	232	875	1921	101
ITALY	+	210	3	935	599	749	2860	1489	523	42	27	37	9881	9617	1116
NETHERLANDS	0	3	594	1196	1012	675	1408	1040	2063	22	6	0	4291	8645	4386
NORWAY	0	0	0	71	51	0	428	39	70	41	42	0	241	476	7
PORTUGAL	20	0	0	160	636	219	70	2	314	0	0	0	0	32	0
SPAIN	25	1	0	2088	6587	3619	241	397	1062	11	10	0	5040	5201	1622
SWEDEN	0	30	0	244	194	77	1823	1629	787	26	11	0	1540	2654	1217
SWITZERLAND	0	0	0	55	16	9	182	54	145	36	13	0	5150	2658	161
TURKEY	0	0	0	796	5730	2554	28777	31732	18704	0	0	0	7609	8266	202
UNITED KINGDOM	39	71	32	4697	8575	3367	6370	7935	5051	269	268	61	4098	6585	3301
OTHER	0	0	0	00	5	0	2	7	0	0	0	0	0	0	233
TOTAL WESTERN EUROPE	**953**	**2174**	**710**	**24045**	**43198**	**19524**	**74765**	**80219**	**54451**	**1950**	**2935**	**1575**	**58228**	**67052**	**23211**
CZECHOSLOVAKIA	0	0	0	0	0	0	546	1592	132	0	0	0	450	675	726
GERMANY, DEM. REP.	0	0	0	0	1	164	0	0	0	0	0	0	0	5	0
HUNGARY	63	516	0	0	0	0	0	0	21	0	0	0	0	0	0
POLAND	0	0	0	387	459	106	1400	14	195	662	0	0	7566	14639	4906
U.S.S.R.	0	0	84	0	0	0	0	96	656	0	0	0	0	0	133
YUGOSLAVIA	0	0	0	0	0	0	549	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	8	15	0	0	0	0	0	0
TOTAL EASTERN EUROPE	**63**	**516**	**84**	**387**	**460**	**270**	**2495**	**1710**	**1019**	**662**	**0**	**0**	**8016**	**15319**	**5765**
CANADA	**2745**	**1925**	**229**	**28718**	**36708**	**17264**	**10325**	**12470**	**8207**	**950**	**663**	**770**	**88387**	**75933**	**33021**
ARGENTINA	32	0	0	248	83	156	249	76	75	93	0	5	455	408	34
BOLIVIA	67	0	0	126	69	0	9	15	1	0	0	0	670	34	3
BRAZIL	175	45	20	1531	1273	1	1027	1797	1188	255	3	24	637	1038	192
CHILE	0	11	3	129	86	193	143	132	168	1660	131	16	13957	15398	5417
COLOMBIA	25	0	14	406	141	46	1440	2667	603	3508	1773	1282	19496	4452	3213
COSTA RICA	3	0	0	3717	1052	425	36	197	494	37	7	0	2967	4410	3800
DOMINICAN REPUBLIC	156	40	2	1936	1412	352	49	95	492	0	16	0	790	284	268
ECUADOR	172	0	0	571	717	17	139	33	178	686	115	134	8828	8494	3374
EL SALVADOR	0	0	0	758	120	189	1216	331	164	43	1138	160	3689	7200	5407
GUATEMALA	21	0	0	1555	1370	812	38	5	182	0	119	0	6769	7509	4121
HAITI	1	0	0	272	232	53	729	5	75	1	3	0	6	1	30
HONDURAS	0	2	0	556	279	96	20	11	50	3	0	0	2167	1792	1614
JAMAICA	0	0	0	441	516	4	14	78	296	0	0	0	43	49	88
LEEWARD & WINDWARD ISL	0	0	0	0	2	0	0	0	0	0	0	0	5	8	0
MEXICO	50	227	119	1737	3106	1640	2223	4332	2787	9142	13119	3713	22341	19526	18653
NICARAGUA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PANAMA	0	14	0	155	143	1	134	59	51	0	0	1	60	16	6
PARAGUAY	0	0	0	0	0	0	1	25	0	0	0	0	0	0	0
PERU	5	0	0	196	80	1582	536	156	118	429	214	0	451	7	0
TRINIDAD	0	0	0	2	57	34	52	4	11	0	0	0	8	6	8
URUGUAY	169	0	0	94	54	2	3	1	26	34	0	0	499	522	300
VENEZUELA	23	70	3	1201	1808	196	153	826	356	7808	2433	445	4486	2707	53
OTHER	0	19	0	90	183	6	5	6	63	4	2	0	19	67	14
TOTAL OTHER AMERICAS	**899**	**428**	**161**	**15721**	**12783**	**5805**	**8216**	**10851**	**7378**	**23703**	**19073**	**5780**	**88343**	**73928**	**46595**

See footnotes opposite

The following are corrections in the **WORLDWIDE DIRECTORY OF MANUFACTURED FIBER PRODUCERS** which appeared in the June 1989 ***FIBER ORGANON.***

On page 135,
NETHERLANDS

AKZO FIBRES AND POLYMERS DIVISION, ENKA bv
Aramid Arnhem, Emmen, *Arenka* (yarn)
Change tradename to.
Twaron

On page 139,
TAIWAN

FORMOSA CHEMICALS & FIBER CORPORATION
(part of Formosa Plastics Group)
Rayon Chang Hwa, *Tarsiyon* (reg yarn & staple)
Change to.
Rayon Chang Hwa & Longder, *Tainyon* (staple)

TABLE 15:
SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION *(CONTINUED)*
THOUSAND POUNDS

	A. ARTIFICIAL (CELL.) YARN, MONOFIL & STRIPS			B. SYNTHETIC (NONCELL.) TEXTILE YARN			C. SYNTHETIC (NONCELL.) INDUSTRIAL YARN, MONOFIL & STRIPS			D. ARTIFICIAL (CELL.) STAPLE+TOW			E. SYNTHETIC (NONCELL.) STAPLE+TOW		
COUNTRY	1987	1988	6 MOS. 1989	1987	1988	6 MOS. 1989	1987	1988	6 MOS. 1989	1987	1988	6 MOS. 1989	1987	1988	6 MOS. 1989
BANGLADESH	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
HONG KONG	5	5	0	600	373	134	361	501	1019	37	483	428	9312	11170	3880
INDIA	140	85	0	231	182	7	2808	3171	2258	52	278	0	2366	1320	1177
INDONESIA	0	0	0	0	79	29	3091	7809	8416	0	45	0	586	519	217
KOREA, REP. OF	37	2000	20	381	1462	349	1062	2151	1058	133	288	23	19042	13731	9225
MALAYSIA	0	13	0	4	1	49	0	10	11	0	33	41	52	278	49
PAKISTAN	19	0	0	347	370	86	42	67	286	37	0	0	1434	587	339
PHILIPPINES	8	23	0	470	334	406	1593	777	362	7	7	7	5212	5290	3794
SINGAPORE	0	0	0	339	2	8	216	959	317	40	3	0	599	129	13
TAIWAN	262	999	1	1782	596	72	3366	4679	2432	969	354	29	13198	23674	15145
THAILAND	56	35	0	48	105	80	299	344	547	0	0	0	11698	3141	2719
TOTAL OTHER ASIA	**527**	**3160**	**21**	**4202**	**3504**	**1220**	**12838**	**20468**	**16706**	**1275**	**1491**	**528**	**63501**	**59839**	**36558**
CHINA, PRC	**417**	**3460**	**448**	**760**	**6586**	**2511**	**3**	**2132**	**2028**	**5375**	**44**	**1757**	**39144**	**84557**	**16289**
JAPAN	**88**	**78**	**0**	**3732**	**10464**	**2848**	**15050**	**17964**	**10281**	**412**	**219**	**58**	**4216**	**7011**	**4900**
ALGERIA	0	0	0	0	82	0	0	5	0	0	13	0	1	0	0
AUSTRALIA	392	745	0	8222	14406	8058	1542	2009	6947	145	79	129	6476	8839	1190
CAMEROON	0	0	0	132	118	12	0	0	0	0	0	0	0	0	0
EGYPT	0	0	0	1611	315	746	88	150	190	0	0	0	4708	931	825
IRAQ	0	0	0	0	831	325	0	0	0	0	0	0	0	0	0
ISRAEL	10	55	21	3055	1455	740	7913	6440	3867	3	5	38	2158	885	476
JORDAN	57	0	0	1	55	9	0	0	0	0	0	0	0	0	3
KENYA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136
LEBANON	28	0	0	78	230	36	123	157	8	0	0	0	0	0	14
MOROCCO	0	0	0	1064	2030	631	0	16	391	0	0	0	507	716	402
MOZAMBIQUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW ZEALAND	6	44	0	2273	1145	671	313	175	553	+	10	0	406	318	75
NIGERIA	0	0	0	111	251	184	10	76	0	0	0	0	567	308	0
QATAR	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
SAUDI ARABIA	0	0	19	86	2113	1537	45	54	29	0	14	0	589	543	589
SOUTH AFRICA	190	72	1	415	1055	145	37	182	123	27	9	0	320	2918	1526
SUDAN	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
SYRIA	52	0	0	2170	3019	413	254	159	59	0	0	0	12	0	0
TANZANIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUNISIA	0	0	0	0	404	137	231	1	2	0	0	0	0	0	40
UNITED ARAB EMIRATES	0	0	0	0	14	0	0	0	2	0	0	0	0	3	60
ZAMBIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIMBABWE	0	0	0	9	0	0	0	0	0	0	0	0	341	0	0
OTHER	0	0	87	106	612	189	35	1	17	0	0	0	8	0	9
TOTAL M.E., A., & O.	**735**	**916**	**128**	**19333**	**28135**	**13833**	**10591**	**9426**	**12188**	**175**	**130**	**167**	**16094**	**15461**	**5345**
GRAND TOTAL	**6427**	**12657**	**1781**	**96898**	**141838**	**63275**	**134283**	**155240**	**112258**	**34502**	**24555**	**10635**	**365929**	**399100**	**171684**

SOURCE: U.S. Census Bureau Report EM546
+ Less than 1 thousand pounds

For 1987 & 1988 the commodity numbers are
A. 309 0110, 2210, 310 0006 & 0026
B. 310 0008, 0009, 0010, 0014, 0029, 0034, 0040 & 0044
C. 309 0120, 0140, 0170, 2220, 2270, 310 0027 & 0032
D. 309 4219 & 4222
E. 309 3220, 3240, 3250, 3255, 4240, 4242, 4245, 4246 & 4247

For 1989 the Harmonized Tariff Schedule numbers are

A. 5403 10 00 00, 5403 10 30 20, 5403 10 30 40, 5403 10 60 00, 5403 20 00 00, 5403 20 30 00, 5403 20 60 00, 5403 31 10 00, 5403 39 00 40, 5403 41 00 00, 5403 49 00 00, 5405 00 30 00 & 5405 00 60 00

B. 5402 31 00 00, 5402 31 30 00, 5402 31 60 00, 5402 32 00 00, 5402 32 20 00, 5402 32 60 00, 5402 33 00 00, 5402 33 30 00, 5402 33 60 00, 5402 42 00 00, 5402 39 00 00, 5402 39 30 00, 5402 39 30 10, 5402 39 30 90, 5402 39 60 00, 5402 39 60 10 & 5402 39 60 90

C. 5402 10 00 00, 5402 10 30 20, 5402 10 30 40, 5402 10 60 00, 5402 41 00 20, 5402 41 00 30, 5402 41 00 40, 5402 41 00 60, 5402 51 00 00, 5402 61 00 00, 5404 10 20 20, 5402 20 00 00, 5402 20 30 20, 5402 20 30 40, 5402 20 60 00, 5402 43 00 20, 5402 43 00 30, 5402 43 00 40, 5402 43 00 60, 5402 52 00 00, 5402 62 00 00, 5404 10 20 40, 5402 49 00 10, 5402 49 00 30, 5402 49 00 60, 5402 49 00 80, 5402 49 40 00, 5402 59 00 00, 5402 69 00 00, 5404 10 10 00, 5404 10 20 90 & 5404 90 00 00

D. 5504 10 00 00, 5504 90 00 00 & 5507 00 00 00

E. 5503 10 00 00, 5503 20 00 00, 5503 30 00 00, 5503 40 00 00, 5503 90 00 00, 5501 10 00 00, 5501 20 00 00, 5501 30 00 00, 5501 90 00 00, 5506 10 00 00, 5506 20 00 00, 5506 30 00 00 & 5506 90 00 00

TABLE 16:
FILAMENT YARN DOMESTIC SHIPMENTS [a]

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1988				1989			
		1985	1986	1987	1988	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(C) CELLULOSIC YARN			*(N) NYLON*				*(P) POLYESTER*				*(O) OLEFIN*		
HOSIERY [b]	N	98.1	95.1	93.2	100.3	23.1	24.9	23.9	28.4	j	j		
OTHER CIRCULAR KNIT [c]	N	12.9	21.3	25.3	26.4	7.1	6.4	6.7	6.2	32.5	33.8		
	P	151.2	150.3	102.8	119.5	25.6	28.2	27.9	37.8	40.4	32.8		
	C	2.6	2.0	1.1	0.6	0.2	0.2	0.1	0.1	0.2	0.1		
FLAT KNIT	C	53.0	47.8	27.9	24.3	5.7	7.7	5.8	5.1	6.1	7.5		
	N	143.6	133.8	131.4	133.4	31.2	33.1	33.2	35.9	36.0	34.4		
	P	160.8	167.1	162.5	162.1	39.2	43.0	38.6	41.3	46.0	47.7		
CARPET FACE	N	815.4	881.4	916.0	938.3	228.2	233.8	241.2	235.1	225.1	233.9		
	O	202.1	215.7	244.5	266.6	65.1	67.9	67.2	66.4	69.0	63.3		
CARPET BACKING [d]	O	354.6	404.1	425.3	427.0	107.9	113.0	102.1	104.0	105.4	123.4		
OTHER BROAD WOVEN [e]	C	111.3	126.3	122.8	141.9	31.0	35.2	36.0	39.7	35.6	38.5		
	N	71.4	76.2	79.4	78.3	20.3	17.6	19.8	20.6	21.1	22.6		
	P	420.1	344.4	379.4	391.3	89.8	95.5	94.0	112.0	100.8	107.2		
	O	225.7	271.5	317.7	336.6	84.9	83.7	82.3	85.7	88.8	86.6		
NARROW WOVEN [f]	C	1.5	2.0	2.2	4.4	1.5	1.1	0.9	0.9	1.7	0.8		
	N	31.1	33.9	42.1	42.0	11.1	11.1	9.9	9.9	9.5	10.2		
	P	40.0	44.0	66.2	81.0	15.2	18.9	17.8	29.1	18.8	23.2		
	O	15.2	17.5	17.7	19.0	4.7	4.8	4.8	4.7	4.8	5.1		
TIRES, INCL. CHAFER [g]	N	146.0	134.2	143.0	132.2	34.5	33.1	31.2	33.4	34.3	33.6		
	P	155.5	159.3	162.8	171.8	41.3	44.2	43.4	42.9	41.7	43.6		
OTHER RUBBER INDUSTRY [c g]	N	15.3	15.2	16.4	20.4	5.5	4.7	4.9	5.3	4.5	4.4		
	P	31.2	27.2	34.5	25.2	6.7	6.2	6.2	6.1	6.3	8.2		
ROPE, CORDAGE & FISHLINE	N	35.3	36.4	37.9	36.4	9.7	9.7	8.2	8.8	8.8	9.2		
	P	13.8	13.0	13.4	12.5	3.7	3.1	2.4	3.3	3.2	3.8		
	O	108.2	106.3	106.7	105.0	27.9	25.5	23.6	28.0	33.5	30.4		
ALL OTHER [h]	C	18.7	14.0	12.8	11.4	3.0	3.1	3.0	2.3	2.4	3.3		
	N	48.3	52.1	69.6	64.7	17.1	21.0	12.1	14.5	16.0	18.0		
	P	231.7	187.1	191.8	194.0	45.2	52.8	47.9	48.1	35.0	37.2		
	O	31.8	34.1	23.6	29.9	7.8	7.6	7.7	6.8	7.0	7.1		
TOTAL ABOVE	**C**	**187.1**	**192.1**	**166.8**	**182.6**	**41.4**	**47.3**	**45.8**	**48.1**	**46.0**	**50.2**		
	N	**1417.4**	**1479.6**	**1554.3**	**1572.4**	**387.8**	**395.4**	**391.1**	**398.1**	**387.8**	**400.1**		
	P	**1204.3**	**1092.4**	**1113.4**	**1157.4**	**266.7**	**291.9**	**278.2**	**320.6**	**292.2**	**303.7**		
	O	**937.6**	**1049.2**	**1135.5**	**1184.1**	**298.3**	**302.5**	**287.7**	**295.6**	**308.5**	**315.9**		
TOTAL DOMESTIC		**3746.4**	**3813.3**	**3970.0**	**4096.5**	**994.2**	**1037.1**	**1002.8**	**1062.4**	**1034.5**	**1069.9**		
ALSO DIVIDED AS													
APPAREL		*1064.8*	*962.4*	*930.2*	*941.2*	*223.0*	*237.0*	*226.0*	*255.2*	*253.4*	*253.7*		
HOME FURNISHINGS		*1624.9*	*1738.0*	*1838.4*	*1902.6*	*463.0*	*485.0*	*475.1*	*479.5*	*468.8*	*498.2*		
INDUSTRIAL		*1056.7*	*1112.9*	*1201.4*	*1252.7*	*308.2*	*315.1*	*301.7*	*327.7*	*312.3*	*318.0*		
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET) [i]													
NYLON		114.9	115.8	NA	NA	NA	NA	NA	NA	NA	NA		
POLYESTER		776.3	634.6	626.3	649.9	146.7	159.2	153.8	190.2	164.5	163.2		
OLEFIN		22.3	22.9	26.6	24.4	6.4	6.4	5.5	6.1	6.9	4.4		

NA No longer available.

a. Filament yarn plus monofilament shipments by primary trade or end use, olefin includes spunbonded polypropylene but does not include spunbonded polyethylene

b. Small quantities of polyester and cellulosic yarn are included in All Other

c. Small quantities of olefin are included in All Other

d. Small quantities of nylon and polyester are included in All Other

e. Other Broad Woven except carpets, tire fabric, flat belting, etc

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing

g. Cellulosic yarn quantities included in All Other

h. All Other includes sewing thread and other industrial applications The olefin quantities include sliver knit backing Also includes indirect exports

i. These quantities are included in the Total Domestic area above

j. Nylon quantities are included in Other Circular Knit

TABLE 17:
STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1988				1989			
		1985	1986	1987	1988	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(R) RAYON (N) NYLON (A) ACRYLIC+MODACRYLIC (P) POLYESTER (O) OLEFIN													
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	197.2	228.8	192.4	183.2	47.5	46.7	46.4	42.6	48.4	47.3		
	NPR	5.5	5.1	3.5	2.7	0.8	0.7	0.6	0.6	0.9	0.4		
PILE FABRICS[b]	A	24.5	23.2	20.8	21.3	5.0	5.7	5.6	5.0	5.1	6.0		
	P	14.9	15.0	19.7	14.7	3.9	3.6	3.3	3.9	3.7	0.9		
OTHER CIRCULAR KNIT + FLAT KNIT[c]	R	5.5	4.7	3.7	2.5	0.5	0.3	0.8	0.9	0.8	1.0		
	A	139.1	196.3	185.1	139.0	37.8	39.6	34.2	27.4	35.7	34.9		
	P	295.5	367.8	453.3	470.0	108.4	112.6	108.5	140.5	127.8	120.5		
BLANKETS[b]	A	30.2	26.7	25.7	25.1	6.4	5.6	7.9	5.2	7.4	9.3		
	P	6.2	3.7	9.2	6.9	1.8	1.4	1.6	2.1	2.3	2.9		
OTHER BROAD WOVEN	R	174.9	218.0	230.7	243.0	58.7	60.5	63.5	60.3	69.1	59.7		
	N	37.4	37.0	38.7	35.2	8.7	8.0	8.4	10.1	8.1	7.8		
	A	38.2	35.3	41.7	39.3	10.4	9.6	8.9	10.4	12.6	11.5		
	P	864.9	885.6	839.2	863.5	210.7	212.9	205.7	234.2	200.8	240.3		
	O	26.9	18.0	20.2	17.1	4.6	3.8	3.4	5.3	5.2	9.0		
CARPET FACE YARNS[f]	R	0.5	0.4	+	0.4	0.2	0.1	0	0.1	0.1	0.2		
	N	773.9	837.8	905.1	f	f	f	f	f	f	f		
	P	126.8	145.0	209.0	261.2	66.1	69.0	62.3	63.8	60.2	51.2		
	O	107.4	117.2	116.2	138.2	30.3	35.4	34.2	38.3	38.5	35.1		
FIBERFILL[d]	P	281.1	294.9	348.6	357.2	85.3	84.9	92.9	94.1	90.3	93.5		
FLOCK	NP	5.3	5.9	5.5	6.9	1.6	1.6	1.6	2.1	1.8	1.7		
	R	1.8	1.8	0.9	0.1	+	+	+	0.1	0	0		
NONWOVENS[e]	R	113.5	125.4	124.4	122.3	35.4	36.0	26.7	24.2	27.0	28.5		
	N	2.5	2.1	1.9	2.1	0.4	0.5	0.6	0.6	0.7	0.6		
	P	162.5	175.4	204.2	244.1	59.7	55.9	59.0	69.5	68.0	71.7		
	[g] VINYON+O	135.8	166.2	198.0	180.9	46.0	46.9	45.4	42.6	46.1	46.7		
ALL OTHER	R	25.9	20.8	22.7	17.2	6.9	5.0	2.9	2.4	2.7	2.2		
	N	11.2	11.9	14.8	901.4	229.0	214.0	231.1	227.3	231.4	221.4		
	A	29.5	20.9	13.6	13.2	1.9	2.1	4.3	4.9	3.7	3.7		
	P	116.9	108.3	115.0	91.3	21.5	31.4	17.3	21.1	21.2	13.0		
	[g] VINYON+O	9.6	11.3	6.7	8.0	2.9	1.5	1.8	1.8	1.9	2.7		
TOTAL ABOVE	**R**	**323.7**	**373.0**	**383.1**	**386.0**	**101.9**	**102.0**	**94.0**	**88.1**	**99.8**	**91.6**		
	N	**830.3**	**894.9**	**966.0**	**944.9**	**239.4**	**223.9**	**241.6**	**240.0**	**241.9**	**231.5**		
	A	**458.7**	**531.2**	**479.3**	**421.1**	**109.0**	**109.3**	**107.3**	**95.5**	**112.9**	**112.7**		
	P	**1872.7**	**1998.6**	**2201.0**	**2311.8**	**558.3**	**572.5**	**551.2**	**629.8**	**575.2**	**594.4**		
	[g] VINYON+O	**279.7**	**312.7**	**341.1**	**344.2**	**83.8**	**87.6**	**84.8**	**88.0**	**91.7**	**93.5**		
TOTAL DOMESTIC		**3765.1**	**4110.4**	**4370.5**	**4408.0**	**1092.4**	**1095.3**	**1078.9**	**1141.4**	**1121.5**	**1123.7**		
ALSO DIVIDED AS													
APPAREL		*1255.0*	*1489.3*	*1479.9*	*1421.6*	*352.6*	*356.4*	*340.5*	*372.1*	*361.6*	*381.7*		
HOME FURNISHINGS		*1536.9*	*1625.8*	*1755.8*	*1827.5*	*451.5*	*445.9*	*455.5*	*474.6*	*467.3*	*441.1*		
INDUSTRIAL		*973.2*	*995.3*	*1134.8*	*1158.9*	*288.3*	*293.0*	*282.9*	*294.7*	*292.6*	*300.9*		

a. Olefin quantities are included in All Other.
b. Rayon and nylon quantities are included in All Other.
c. Nylon quantities are included in All Other.
d. Rayon, acrylic and nylon quantities are included in All Other.
e. Wet & dry laid and needled batts only.
f. Acrylic and nylon quantities are included in All Other.
g. 1987-1989 data exclude Vinyon.

TABLE 18:
SELECTED U.S. MONTHLY FIBER DATA
MILLION POUNDS

ITEM	1989												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989	1988
	MANUFACTURED FIBER TOTAL SHIPMENTS[b c]													
ARTIFICIAL (CELLULOSIC)														
YARN	17.3	17.1	18.4	21.5	18.3	18.4	18.9	17.8	17.3				165.0	161.1
RAYON STAPLE	34.5	32.1	36.5	31.4	34.8	30.9	24.8	29.4	26.7				281.1	314.6
TOTAL ARTIFICIAL (CELLULOSIC)	**51.8**	**49.2**	**54.9**	**52.9**	**53.1**	**49.3**	**43.7**	**47.2**	**44.0**				**446.1**	**475.7**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	31.3	30.5	32.6	32.3	28.9	32.7	29.1	29.2	28.6				275.2	280.2
- CARPET	74.9	77.2	82.0	77.5	86.1	78.5	73.4	89.9	88.7				728.2	730.2
- TEXTILE[f]	33.9	33.2	35.0	34.6	33.8	34.2	31.8	32.3	32.6				301.4	283.1
POLYESTER - INDUSTRIAL[d]	28.6	29.7	30.9	32.2	30.4	32.8	30.7	31.9	28.6				275.8	268.4
- TEXTILE[f]	73.2	71.2	74.4	78.2	77.0	66.1	73.5	54.9	58.6				627.1	620.3
OLEFIN[e]	105.3	104.3	103.6	104.1	112.3	105.5	97.6	109.9	109.4				952.0	903.1
TOTAL YARN	**347.2**	**346.1**	**358.5**	**358.9**	**368.5**	**349.8**	**336.1**	**348.1**	**346.5**				**3159.7**	**3085.3**
STAPLE+TOW+FIBERFILL														
NYLON	82.3	78.4	88.8	76.4	81.3	78.3	74.9	90.8	85.5				736.7	718.4
ACRYLIC+MODACRYLIC	41.7	46.2	48.6	49.2	51.7	44.0	41.1	47.6	44.1				414.2	442.2
POLYESTER	205.8	192.1	212.4	214.3	208.1	193.9	182.0	198.3	182.0				1788.9	1778.5
OLEFIN	31.1	31.6	32.0	31.4	32.3	33.5	27.8	33.9	33.1				286.7	272.0
TOTAL STAPLE	**360.9**	**348.3**	**381.8**	**371.3**	**373.4**	**349.7**	**325.8**	**370.6**	**344.7**				**3226.5**	**3211.1**
TOTAL SYNTHETIC (NONCELLULOSIC)	**708.1**	**694.4**	**740.3**	**730.2**	**741.9**	**699.5**	**661.9**	**718.7**	**691.2**				**6386.2**	**6296.4**
TOTAL MANUFACTURED FIBER	**759.9**	**743.6**	**795.2**	**783.1**	**795.0**	**748.8**	**705.6**	**765.9**	**735.2**				**6832.3**	**6772.1**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	11.7	10.9	11.3	10.4	9.7	8.9	11.0	10.7	11.6				11.6	11.5
RAYON STAPLE	13.0	13.2	11.7	12.5	13.4	15.8	16.8	16.3	18.1				18.1	13.3
TOTAL ARTIFICIAL (CELLULOSIC)	**24.7**	**24.1**	**23.0**	**22.9**	**23.1**	**24.7**	**27.8**	**27.0**	**29.7**				**29.7**	**24.8**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.4	24.8	22.4	22.9	24.2	24.5	26.7	27.3	28.7				28.7	30.5
- CARPET	63.5	63.2	62.8	68.7	64.0	66.8	73.6	59.3	54.6				54.6	58.1
- TEXTILE[f]	47.1	48.3	46.4	47.0	47.4	49.2	52.7	54.1	55.6				55.6	54.6
POLYESTER - INDUSTRIAL[d]	35.0	31.4	30.6	31.6	30.9	31.9	33.9	32.3	33.2				33.2	31.4
- TEXTILE[f]	73.5	76.9	81.8	85.1	85.0	89.1	99.7	115.7	116.8				116.8	90.4
OLEFIN[e]	53.1	53.8	58.0	57.8	58.5	60.7	61.1	60.6	61.0				61.0	52.0
TOTAL YARN	**296.6**	**298.4**	**302.0**	**313.1**	**310.0**	**322.2**	**347.7**	**349.3**	**349.9**				**349.9**	**317.0**
STAPLE+TOW+FIBERFILL														
NYLON	51.8	52.9	51.0	57.5	57.5	57.0	59.1	46.9	46.8				46.8	45.3
ACRYLIC+MODACRYLIC	70.5	68.3	69.0	67.3	65.2	69.7	71.7	69.3	66.3				66.3	62.3
POLYESTER	163.5	163.8	158.5	164.4	176.2	191.0	226.5	233.6	218.9				218.9	188.6
OLEFIN	31.0	31.3	32.8	34.3	35.2	33.3	34.2	34.1	30.5				30.5	32.8
TOTAL STAPLE	**316.8**	**316.3**	**311.3**	**323.5**	**334.1**	**351.0**	**391.5**	**383.9**	**362.5**				**362.5**	**329.0**
TOTAL SYNTHETIC (NONCELLULOSIC)	**613.4**	**614.7**	**613.3**	**636.6**	**644.1**	**673.2**	**739.2**	**733.2**	**712.4**				**712.4**	**646.0**
TOTAL MANUFACTURED FIBER	**638.1**	**638.8**	**636.3**	**659.5**	**667.2**	**697.9**	**767.0**	**760.2**	**742.1**				**742.1**	**670.8**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	12.1	12.8	14.1	11.5	11.5	11.3	9.3						82.6	86.6
CARPET CLASS WOOL	0.8	1.4	1.5	1.6	1.6	1.3	1.2						9.4	9.5
TOTAL RAW WOOL	**12.9**	**14.2**	**15.6**	**13.1**	**13.1**	**12.6**	**10.5**						**92.0**	**96.1**
RAW COTTON	289.5	301.0	339.2	305.7	362.3	343.5	283.5						2224.7	2055.1

[a] "Year to date" totals for stock, are the latest month's figures.

[b] The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

[c] Producers' total domestic shipments plus export shipments.

[d] Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

[e] Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

[f] Includes low denier industrial yarn.